SUPPLEMENT TO WEEKLY BULLETIN

OF THE

DEPARTMENT OF TRADE AND COMMERCE

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TRADING IN SPAIN

BY

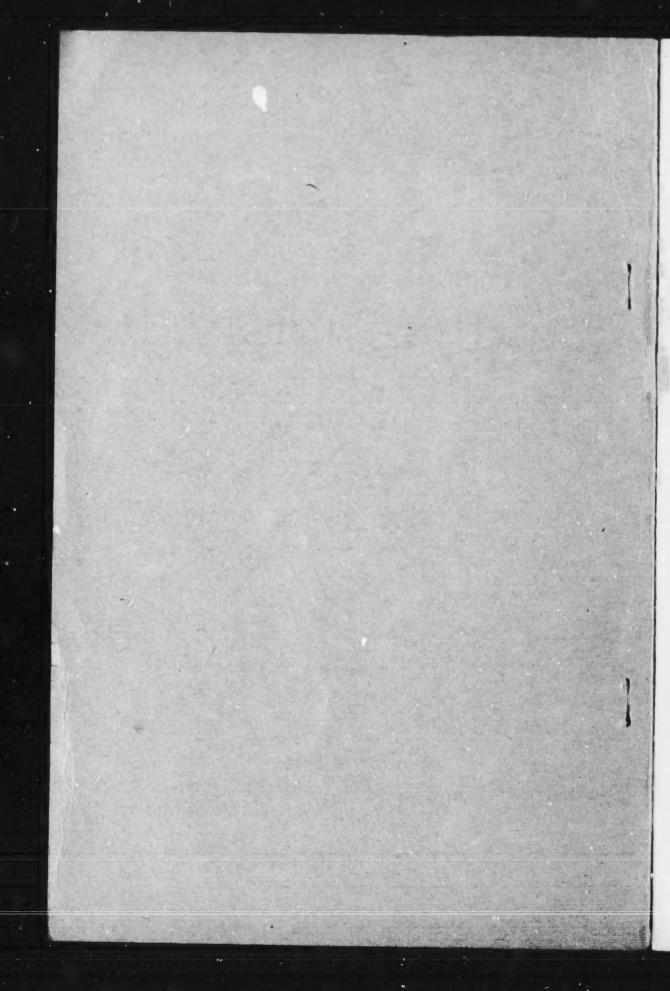
W. McL. CLARKE

Canadian Trade Commissioner to Italy

Issued by Authority of the Right Hon. Sir George E. Foster, P.C, K.C.M.G.

Minister of Trade and Commerce

OTTAWA
THOMAS MULVEY
PRINTER TO THE KING'S MOST EXCELLENT MAJESTY
1926



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TRADING IN SPAIN

PART I.

The Economic and Social Outlook in Spain.

At the commencement of hostilities Spain was a country with a depreciated currency, a heavy unfavourable trade balance, with her best securities the monopoly of the Paris market, business dividends low or wanting altogether, a land of agriculture and few strong industries, a country where native capital was not forthcoming, and where there was little general consciousness of the potentialities of the state commercial.

The resent year finds a situation quite different. Her peseta is one of the highest monetary units of European exchange; an unfavourable trade balance for 1913 of 222,000,000 pesetas had become a favourable balance of 363,000,000 pesetas in 1918; the nation's gold security has increased from 543,000,000 to 2,290,000,000 pesetas; her bank deposits have risen by over 2,250,000,000 pesetas; banking, shipping and industrial dividends are on the incline; her railway bonds are finding their way to Madrid; native capital is no longer so disposed to lie idle—some 500,000,000 pesetas were invested in joint stock companies alone in 1917; her industrial development has been greatly accentuated, coal production, to mention but one item, having increased from 2,000,000 tons to 7,100,000; and not the least important is the awakening-forced as Spain was to recognize that other countries could not supply her needs as formerly and that these same countries had needs of their own-of the national consciousness to an appreciation of the country's resources in agriculture, mines, and water-power, and the many evidences there are that the Spain of the past, languid if not languishing, has determined to become a new Spain, building intangible castles no longer but rather devoted to more mundane and more practical pursuits.

Given this favourable change, what can be expected of its reflex influence on the nation? In the first place one looks forward to a greater intensification of all forms of national expression, the significance of which lies in the fact that Spain will doubtless proceed along those lines now already delineated and will tend to become more alive industrially and more keen in a commercial sense. Already there exists the distinguishable sentiment of Spain for the Spaniard, and the nationalistic feeling is far from inarticulate. It is to be predicted therefore that such feeling will take even more definite form, and that a policy of protection will accompany a more intensive activity. In the second place, Spain's increased purchasing power is giving her the means wherewith to follow up her developing prosperity, to finance more extended undertakings, and to buy more freely.

A third consideration is the correlated desire to become a trading people in a larger sense of that word. It may naturally be expected therefore that her international exchanges will tend to advance, and that Spain will better her railway, harbour

and steamship facilities to that end.

Apart from what progress Spain will make by the use of its own national wealth, it is to be kept in mind that outside influences will no doubt continue to react on Spanish development. At present the foreign capital invested in Spain approximates 1,150,000,000 pesetas, and there are not a few indications that further capital from abroad is to interest itself in the country. If for instance the proposed international trunk line (Dax-Madrid-Algeciras) attracts sufficient capital to warrant its construction. Spain, once the railway is completed, will become ipso facto the bridge between Western Europe and Northern Africa, an accomplishment which can only be advantageous to the nation.

Finally, it will be asked, are there no disturbing social conditions whatsoever in the nation's life? To answer this question is but to state that a present-day modern

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nation of 20,000,000 inhabitants, played upon by various ambitions and influences, is bound to have internal problems to solve. Then again there is the additional consideration that the medieval Spain is not yet entirely modernized, and that problems belonging properly to other days in most European countries here still persist. To enumerate only the more appreciable factors which impair the social order, one naturally thinks first of the labour difficulties which are especially prevalent in the eastern and northern sections and which find their most sinister expression in Barcelona, at once the Manchester and Liverpool of Spain. Crises and lockouts not infrequently occur, directed by a mysterious and Bolshevistic syndicalism which permeates the working classes and controls them voluntarily or against their will. Combated though this syndicalism is, its effects have been serious and far-reaching, but it is to be noted as an encouraging sign that an organization from among the workers and citizens themselves has only recently sprung into being for fighting against such mischievous domination.

Then there is the agitation of the Northeastern province, which in its most pronounced form aims at autonomy and independence for Catalonia, and in its mildest expression at the readjustment of the methods by which the province is governed and taxed. Ethnologically different from the rest of Spain, speaking another language even if understanding Castilian or pure Spanish and of a distinctive character which differentiates their thoughts and actions, the Catalonians generally give little thought to the rest of Spain and are actuated by the separatist principle of "Catalonia first." This problem in its political and social aspect is still unsolved even though a solution

of some kind is known to be needful.

In the third place the "absenteeism" system of holding large tracts of lands by the prerogative of wealth and position is indeed a sorry defect in the social order, and is the more critical as it occasions serious discontent among the peasants with the life they are thus obliged to live, while at the same time it considerably hampers cultivation. Some urgent remedy of a radical nature is undoubtedly called for.

Finally, the cost of living continues to advance, and often the meagre wage is insufficient to guarantee a livelihood with any comfort to the labouring classes. It is the ever-present story of capital and labour, and in this case, apart from the demands of the syndicalistic movement previously referred to, it would seem that

labour is more frequently entitled to a higher wage than it now receives.

If, however, the phenomena the writer has referred to in what has gone before is examined critically, and favourable and unfavourable features are set off one against the other, and if the national characteristics of a people who on the whole are honest, sober, fair-dealing, susceptible to friendship, cautious and yet not without ambition, and if to these characteristics of the people there be added the rich and undeveloped agricultural and mineral wealth of the country, it may be argued with telling evidence that Spain will continue to prosper, to make progress and to achieve still greater national and international status.

Before drawing any corollary from the foregoing statements, however, it is to be noted that Spain, flourishing as she is and with bright prospects for the future, industrially and commercially, possesses after all and can only be expected to possess a relative correspondence to outside countries. It would be a mistake for instance to presume that Spain is a big market in the absolute sense or will ever offer the opportunities for trade expansion as one day Russia, for example, undoubtedly will. Spanish needs there will be, but they must by the nature of things be circumscribed. Not only in fact are such needs destined to be limited, but competition from abroad is and will continue to be very keen. These facts deserve recognition.

With this proviso the writer is inclined to believe as a result of his preliminary investigations, that Spain with its varied requirements offers a much larger market for both natural and manufactured products than up to the present Canada has taken advantage of. Spain also may be regarded as having certain products whose greater importation would be of interest to Canada even if our market for her

exportable goods must also be considered limited.

PART II.

Export Trade Accessories.

Carrying on trade with Spain as with other countries involves more than a general knowledge of the markets themselves to which goods may be sent and from where other goods may be drawn in exchange. Of course the comprehensive grasp of the market situation is most important, but it is often the methods of doing business and the underlying principles which govern successful trading that also need elucidation. Because of this it has been considered advisable at the outset to refer briefly to some of these other factors which may be called "export trade accessories" and upon which permanent success so largely depends.

It may happen at times that an export policy apart from a recognition of these factors is workable, but just as a competitor in a motor-car race will endeavour to equip his machine with every known improved accessory calculated to contribute to success, so the Canadian exporter if he desires to win out in the international trade arena of to-day, can well afford to make sure that he is not handicapped at the start by failing to appreciate those essentials—those export trade accessories—which make for success.

EFFECTIVE PROPAGANDA.

However much Spain may be known in Canada, it is clearly evident from travelling through the peninsula, that Spain herself possesses but a very slight knowledge of our country. Odd though it may seem, the writer was confronted on every hand with the most limited and inaccurate conception of the Dominion. This was not only confined to importers, but even big industrial men, bank managers and officials in Spanish Chambers of Commerce held most incomplete views as to Canada's place among commercial nations of to-day. Especially was this minimizing opinion held of our industrial development, and it may be stated that the majority of the individuals interviewed were quite frequently surprised at the few revelations made to them as to the productive and potential capacity of Canada. The deduction therefore is self-evident. If Canada is determined to do business in Spain, Canada must be made better krown in that country by an effective propaganda.

GOVERNMENT AND PERSONAL PROPAGANDA.

Government action, important as it would be in getting Canada to the fore, can only accomplish its best results if representatives from among our manufacturers do the "follow-up work" and come themselves to Spain. It is highly important in this connection that only "authority" men be sent out, as not only a careful study of local conditions and the special needs of the Spanish market can best be made through these personal visits of the heads or directors of home concerns, but in no other way can the Spaniards come to appreciate what goods we have to offer and the kind of people with whom they are dealing.

METHODS OF ADVERTISING.

To supplement this personal propaganda there are of course other mediums which may be used to advantage. For example comprehensible catalogues and literature can be distributed to Spanish Chambers of Commerce, banks, and large and small importing houses; understandable circular letters can be despatched; and trade advertising might be done in some of the leading dailies and local technical reviews as well as in trade magazines which, though printed elsewhere, are circulated throughout Spain. Of course once a Spanish connection is formed various other methods of advertising

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larger landa oducts or her present themselves, as for instance street car advertisements, window featuring of Canadian wares, a practical demonstration of such goods as agricultural machinery, centrally located offices, theatre advertising, etc., each of which features are used by other countries in pushing their respective trades in Spain.

ELECTRICAL AND GENERAL EXHIBITIONS TO BE HELD IN SPAIN.

Another channel of effective propaganda is the showing of samples and participation in sample fairs. There is being planned a large exhibition of electrical products in Barcelona for probably the last of next year or during the first part of 1921; and Canadian electrical concerns, in view of the importance of electrical development in Spain, to which reference is made further on in this report, might advisedly take part. Moreover in Seville for 1921 and 1922 there is being worked out on an extensive scale a Spanish-American Exhibition, and it is expected that the majority of the South American Republics as well as the United States will be represented. This exhibition will be held in what is one of the finest if not the most beautiful park in Europe, and many special pavilions of most imposing architecture are being constructed for its accommodation. As Canada constitutes the greater part of North America proper, it would seem that a representative exhibit should be in evidence from the Dominion.

THE IMPORTANCE OF SENDING SAMPLES.

The writer was informed again and again of the Spaniard's predilection for seeing samples and the appreciable asset that foreign firm had which was prepared to show its goods and hold stocks of same in a Spanish warehouse or show-room till its merchandise was widely known. One importer in Barcelona told the writer that seeing an illustration of an article in a catalogue or trade magazine was like seeing a photograph of presumably a pretty woman. But on introduction the lady was not infrequently found to be anything but lovely. The secretary of the British Chamber of Commerce at Madrid moreover pointed out a specific case where a Canadian company had sent folders to the Chamber describing its glass churns with the request that the same be shown to possibly interested importing firms in the peninsula. Although several houses were approached, it was generally admitted that without a sample of the churn manufactured it was quite impossible to decide as to its merits and as to the expediency of trying out the Spanish market. Samples therefore wisely employed are often of material assistance.

AN APPRECIATION OF THE SPANISH VIEWPOINT.

If it is important that Spain should know Canada better, it is equally important that Canadians contemplating business with Spain should know and appreciate the methods by which the Spaniard prefers to conduct his business with foreign countries. In fact this appreciation of the Spanish viewpoint with its logical sequence of accommodating the Spanish importer, is most essential to success. Canadian exporters for instance might have better wares, ample means of carrying them to Spain, and a branch office in the country, but if they have all else and lack this willingness to please the buyer, they cannot in a competitive market win permanent success.

THE SPANISH LANGUAGE.

By accommodation the writer refers to those factors in foreign trade about which so much is nowaday's written and spoken, but which in isolated cases only are crystallized into definite action in Canada, where an ultra-conservatism seems to persist in many quarters and modern export practice is not sufficiently adhered to. It may seem a hackneyed statement to repeat that the manufacturer or exporter who wishes to carry on business negotiations with Spaniards should do so in the language

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t which nly are sens to to. It er who of Enain. It is to be remembered that at first it will probably be the Canadian who will be obliged to approach the Spaniard, as the latter is receiving many offers from other countries, and it is at least a favourable entré to write or to address him in a language always intelligible.

METRIC WEIGHTS AND MEASURES.

But if the Spanish language is a needful qualification, so is the quotation of prices in Spanish currency and according to metric weights and measures. The mention of this point, in view of its admitted advantage, should be enough to emphasize it. A case can easily be imagined of a Russian company some day trying to initiate Canadian business in what to Canada would be a clumsy manner, i.e. by the employment of the Russian language, the Russian currency and the Russian weights and measures. True it is that English, the dollar and the avoirdupois tables are often more familiar to the Spaniard than the Russian trio of language, currency, weights and measures would be to Canadians; but a Spaniard always thinks first in his own language and according to his own standards, and other systems are to him at best a clumsy way of expression and a sign of an indifferent desire to please him and obtain his respect.

PRICE QUOTATIONS.

But having adopted the Spanish language and the metric weights and measures, still further accommodation in the quoting of prices reacts favourably on the Canadian exporter. The writer saw not a few letters while in Spain from Canadian firms offering various products f.o.b., some inland Ontario or Quebec city. Nov an inland quotation per se is highly acceptable to a Spaniard living for example in Madrid, but such inland quotations should refer to an inland point in Spain and not in Canada. Between these two methods of quotation there is a great difference. Of course if the importer lives in a seaport town, e.g. Barcelona, he desires a clear price through to his own warehouse in that city. This is the ideal system of quotation that should be aspired to by our exporting houses. As Germany was prepared to do this in most instances, and other countries were not so inclined, her penetration was made the easier. The Canadian might therefore advantageously be alive to the benefits resulting from such practice. To offer quotations delivered in the importer's stockrooms is not normally as difficult an operation as might first appear and demands but little more trouble on the part of the exporter. In calculating such laid-down quotations it is necessary, in addition to estimating cost, packing, insurance and freight, to take account of lighterage dues if such there are (and in Spanish trade it is always advisable to be informed on this point), all harbour taxes, customs duties, clearing expenses, octroi duties, and if the shipment is to be sent inland, railway freights to destination. This additional information can always be obtained from a reliable transport agent or customs house broker in the port of disembarkation. The writer is convinced that any such extra effort put forward is well worth the endeavour. If, however, products are not quoted c.i.f. delivered free to the customer's door, the least the Canadian firm can do is to quote c.i.f. Spanish port. The death-knell must be sounded to f.o.b. quotations, and imperatively so to f.o.b. quotations inland Canadian point.

TERMS OF PAYMENT.

Spain is a country where credit is expected in import trade. To lose sight of this fact is to lose business and safe business. Canadian manufacturers in carrying on domestic trade involving large sums of money re ognize this principle of credit, although often in foreign trade they fail to appreciate its raison d'être. Export business to be remunerative permanently must be based on confidence in the buyer's ability to pay. This point should need no urging. Especially is its necessity apparent in a country like Spain where the psychological effect of such facilities, other things

being equal, will mean repeat orders to the home manufacturer. The Spaniard likes to be trusted, but the question arises, can he be relied upon to meet his financial obligations to foreign suppliers? The writer was careful to inquire into this point, and his findings would warrant him in concluding that credit can be safely granted in Spain on the condition that the Canadian manufacturer or exporter, after first of all doing what he does at home, i.e. posting himself as to the financial standing of the firm in question, finds that the Spanish importer is esteemed worthy of credit to such and such an extent.

The importance of making careful inquiry first, however, cannot be too highly emphasized. A case was brought to the attention of the writer of a Spanish firm which inquired for English agricultural machinery. The inquirers wrote under a most pretentious letter head surrounded by sheaves of wheat and various harvest crops and with indications of branch houses in various Spanish agricultural centres. The English firm without further investigation sold a small order of machinery on a credit basis, only to find out afterwards that the house had absconded and was in fact a specious organization. Investigation of a reliable nature would preclude any such disastrous results. With a Canadian and other British banks in Spain, with reliable rating houses in operation, with Spanish banks themselves prepared to assist in this commercial intelligence work, with a corps of British consuls throughout Spain and the presence of the British Chamber of Commerce, there can be no excuse for being ignorant of the commercial status of any Spanish firm with which it is worth while to do business. Of course as in Canada ordinary business risks must be taken, so in export trade with Spain these similar commercial risks are not absolutely precluded.

TERMS OF CREDIT.

When then are the terms of credit to be adopted if success is to attend Canadian effort? A great deal has been written about the extended credits of German firms. No doubt such facilities assisted in their export trade with Spain as with other countries, but the glowing accounts of their credit system are often unduly exaggerated. In agricultural machinery, where ability to pay often depends on the harvest the German was generally ready to accept whatever reasonable conditions were offered, and for a reaper payment in three yearly instalments was not an uncommon occurrence—one third on the purchase of the machine, and two instalments in accepted bills, the due dates of which would be at the end of the two succeeding harvest seasons. The writer was informed by one of the largest agricultural machinery importers in Spain that the German Transatlantic Bank operating in Madrid and Barcelona would hold accepted bills given by Spanish farmers in payment of their instalments for machinery to a German house for a very large amount and for a period of two or three years. In other products such as heavy machinery exceptional credit facilities were often conceded.

However lenient the Germans were in this respect, it is not necessary to conclude that such terms are indispensable to every contract nor that Germany was always disposed to grant them. The credit conditions which are at least expected by the Spanish purchaser in most trades are 2 per cent cash in thirty days, or net ninety days, in each case from receipt of documents and acceptance of drafts. Other quotations of a more severe nature irritate him and do not win his respect, even if during the war he has purchased on the best terms obtainable. The "cash against documents" payment and the "cash with orders" payment, for instance must in the interests of Canadian export trade be regulated to the limbo of the past.

In the actual sale of goods to Spain it has been found most generally satisfactory to conduct all credit business on accepted bills of exchange, as in this way the holders are in a much stronger legal position. It is, moreover, customary to remit a draft with bill of lading and invoice to a bank for presentation to the consignee for his acceptance. On the date of maturity the bill is presented by the bank for payment. Although such bills must legally be met before sunset of the day of presentation.

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etory olders draft or his ment. and although no grace days are technically allowed, yet it was more than once pointed out to the writer that the Spaniard would often ask to have the draft renewed and that no hard and fast rule should preclude the foregoing of such an accommodation. The Spaniard wants to pay his debts, but he will often request such a facility, and it is generally in the interests of the exporter, in anticipation of further business—provided he knows the importer's financial condition is sound—to meet the customer's wishes in this respect.

Naturally our manufacturers and exporters with a Canadian and British banks in Spain should not find it difficult to negotiate reasonable and yet accommodating payment for the goods they sell.

DELIVERY OF GOODS.

A word about delivery should be useful. The Spaniard wants to know, after he has made up his mind to purchase in Canada, when he can expect shipment and arrival of merchandise. This is most important to the Spanish firm, and even of greater importance to the Canadian if he wishes to build up any substantial trade and retain what trade he gets. Up till now the Canadian exporter has been subjected to many difficulties in guaranteeing any fixed delivery of goods not only to Spain but to Mediterranean countries. He has either shipped—except in rare cases—via New York or via English port of transhipment. This has been necessitated as Canada had no direct steamship service to Spain, and has undoubtedly prevented a great many orders being placed in Canada from Mediterranean centres. Whatever has been the policy in the past, it would now seem an opportune moment to effect a change and ship direct from Canada to Spanish and Mediterranean ports.

To-day freight rates and transportation are against us and will continue to be adverse unless Canada has her own Canadian service direct. In this period of keen commercial competition for overseas trade it is not to be expected that American ship-owners will show any partiality for carrying Canadian goods at the sacrifice of United States interests. The time has apparently come for Canada to look after, so far as possible, the carrying of her own exports and much is being done at present in Canada to realize this ideal.

DIRECT STEAMSHIP SERVICES RECOMMENDED.

As regards a Mediterranean service the writer is of the firm opinion that a steamship connection is one of the first if not the primary prerequisite to successful trading in these European countries.

It does not seem likely, however, that at present Spanish trade would warrant a eparate service to Spain alone; but the writer believes that a more extended Mediterranean service touching Spain, France, and Italy is what would most beneficially serve our interests. It might also be further found expedient to touch at Lisbon on the outer voyage. Cadiz with its free port could properly be made a point of call for Canadian trade in Northern Africa, although Barcelona is the port most adapted to meet our Spanish requirements as an unloading centre. Further, Marseilles affords facilities to be considered in connection with Canadian trade with Southern France, while Genoa. Naples, Palermo, and Trieste have also claims upon any Canadian Mediterranean service. On the homeward route, Valencia and Malaga each would appear during the fall and winter seasons at least to hold out more advantages than Barcelona for ports of call, while Naples rather than Genoa might be made the tap service for Italian freight. At first a six weeks' or two months' service could be established, and even if increased trade was not at once what might be desired, there is no doubt in the writer's mind that, given enterprise and commercial intelligence, the suggested line would be a material asset in our trade expansion with these countries and at no distant date would compensate the efforts put forward for its beginning and operation.

A return cargo of natural and other products could apparently be found for at least six voyages a year. Citrous fruits, citric acid, raisius, almonds, nuts, rice, olives, olive oil, olive oil for soapmaking, cork, some specially tinned products such as peppers, etc., hides and skins from Northern Africa, perfumes, essential oils, salt, red oxide of iron, iron ore, sulphur, silk and hemp are among some of the characteristic articles these three countries export and what they at present could offer Canada in return for Canadian exports.

A passenger service should also prove remunerative, and among other advantages it might encourage more home manufacturers to visit Spain, France, and Italy for personal investigation purposes.

The idea to keep in mind, however, is that Canadian export trade with things as they are is crippled in these Mediterranean countries to no small extent owing to the lack of direct transportation facilities and that a regular service giving satisfactory delivery would mean not only new but repeat orders which are without question the basis on which any permanent trade can be built up.

REPRESENTATION.

The writer does not intend to disparage any one system of representation and to cry up another. The important point is that Canadian firms should be represented in Spain if they wish to do business, especially as Spain is often called the "land of the pedlar." Whether Canadians eventually open up direct agencies or use merchants and exporting houses at home, or whether they employ direct representatives or manufacturers' agents in Spain, or whether trade groups combine and send out a joint permanent representative, are questions which can only be settled as one system or another best suits the manufacturer's individual interests. One firm may find one system the most effective, and another manufacturer may prefer some other method. It may be noted, however, that if the manufacturer is determined to have his money in advance or cash at the scaboard it will generally be found necessary to do business through a middleman.

The ideal to be aimed at, however, is the centralizing of Canadian export business in Canadian hands; and no matter what policy is adopted periodical visits of competent travellers from the home firm shorld be made. This frequent contact of buyer and seller cannot be emphasized too highly. It is important to study each customer individually, and to find out local customs, conditions and prejudices. When necessary for demonstration purposes technical experts should be sent out, who can make specifications intelligible and who can make the dealer fully acquainted with the Canadian wares. In this connection it may be pointed out that the Spaniard is especially susceptible to friendship, and to treat him as they say in Spain with simpatia (sympathy) is to knock down barriers which otherwise might prove obstructive. In other words the social side of the importer should also be cultivated.

Business is not always done during ordinary business hours. The dinner party, the club or the café table for example are often the places where the biggest orders are put through and the most important information obtained, and no representative of a Canadian manufacturer should come to Spain without a salary and allowance which will enable him to live and entertain in a suitable style. It is further to be recomnected that, if a competent representative goes to Spain and reports to head office certain changes in policy which if made would tell advantageously in favour of that firm's export trade, such suggestions should be acted upon. Otherwise the traveller, so far as the firm is concerned, might have stayed just as well at home. Actual alterations in the design or finish of goods, however, will depend upon the relative importance of the market and upon the degree of determination the manufacturer possesses in his desire to explait that particular trade.

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PACKING.

The Spaniard has a right to expect that the Canadian goods ordered will arrive in good condition, and it is therefore important to follow detailed counsel and to ship not only when but as instructed. As a general rule for heavy machinery, etc., it may be pointed out that cases should not be too thin; heavy weights demand pine or other soft wood with boards sufficiently wide and thick to ensure safe carriage. The writer was informed, moreover, that a greater resilience in cases was often advisable and that new boxes could always be used to advantage. The corners of packing boxes can be fastened with metal bands even if iron strips are not used for binding the case. Any small articles such as screws, nails or minor parts should be securely held in paper parcels and fastened to the machine itself. As almost all machinery pays duty on gross weights, and as interior packings are also reckoned in the weight for assessment, care should be exercised in reducing the volume of outside packing, where a saving can often be effected by dismantling the machine and fitting the smaller pieces into the larger to fill up empty spaces.

It may be further intimated that hardware for example, should be packed in neat boxes, attractively labelled in Spanish and so prepared as to give a good appearance on the shelves of the Spanish wholesalers' and retailers' shops.

Any case or crate used should have the port of discharge clearly stencilled in Spanish, which language should be used rather than English in any necessary lettering.

It may be added that the temperature of Southern Spanish ports, e.g., Cadiz and Seville, often reach 117° F. in the shade, and that this should be noted in preparing foodstuffs, etc., for shipment.

Faulty packing often tells against the exporter, and the Canadian in his desire to obtain the Spanish customer's approval should see to it that no just criticism can arise on this score. In fact the greatest attention should always be given to both inside and outside packing.

OTHER ESSENTIALS TO SUCCESSFUL TRADING WITH SPAIN.

Extreme care should be taken in making out invoices so that no difficulty will arise with the customs and thereby cause inconvenience to the importer. The Spanish language and the metric system should be used, and the merchandise specified in detail. Locks made of brass, e.g., pay a different duty than those made of iron, and hammer heads are dutiable according to their weight.

A further point brought to the writer's attention was the desirability of using what were called "translatable trade marks," i.e., marking the goods with some object which is intelligible to even the most unintelligent Spaniard. For example the French suppliers of certain edged tools to Spain have been accustomed to stamp on their products a lion's head. By so doing that brand has become widely known as the "lion" brand and is always asked for under that name. Fuller reference has been made to this matter of trade marks in the report on agricultural machinery, and it would be a considerable selling point if Canadian manufacturers in catering to the Spanish market would adopt some such system. The producer's name may of course be added if desired, but a marking such as has been described is what the writer would deem most likely to assist in bringing about permanent success.

Again, a Canadian manufacturer should be scrupulously concientious in maintaining the quality of his goods and in shipping according to sample. Different importers who were interviewed found fault with other countries for failing to adhere rigidly to this principle.

It hardly seems necessary to point out the inadvisability of breaking contracts once made. Nothing can displease the Spanish customer more and make him impervious to further solicitations for business. All engagements should be purc-

tiliously kept, and a contract once duly entered into with a Spania 'should be filled at any cost ly the Canadian manufacturer. Several cases were breant to the attention of the writer where firms of other countries were on the black books of the importer for any further orders.

In concluding these suggestions, it may be mentioned that the slightest improvement of a known model gives the manufacturer of the new model a real advantage over his competitor in Spain. As evidence of this the reader is referred to that part of the report dealing with machine tools.

CONCLUSION.

If then Spain comes to know more about Canada, and Canadian manufacturers begin to appreciate the Spanish viewpoint, trade exchanges will be effected much more easily and with greater benefit to both parties. In the last analysis of course trade generally goes where quality and price best correspond to the buyer's needs, but apart from the actual article and the price itself there are many other essential factors in building up our export trade with Spain, and it has been the writer's endeavour to present, on the basis of his findings, at least some of the more salient of these export trade accessories.

The writer's conclusion is that any considerable trade expansion between Canada and Spain will depend upon the strength of the initiative we Canadians take and the wisdom with which we conduct any Spanish campaign. Intelligence, enterprise, patience and expenditure are all needed for the conquests of new markets and it is fundamentally wrong to withdraw if profits do not appear immediately, provided we have what the Spaniard wants.

Finally, permanent success will attend only those Canadian houses which are prepared to give the Spaniard at least the terms of our strongest competitors.

PART III.

Facts about Spain.

AREA AND POPULATION,

Continental Spain covers an area of 190,050 square miles, and if there be added the Balearic and Canary islands which are considered as Spanish provinces, the total area is 194,783 square miles, or about one-nineteenth the size of Canada.

According to the latest compiled statistics the estimated population of Spain on December 31, 1917, was 20,842,902, i.e., 107 persons to the square mile.

ERRITORIAL DIVISIONS.

Spain is divided into the following principal territorial divisions, fifteen in number, which are enumerated herewith for reference purposes:—

Divisions-	Number of Provinces.	Area Square miles,	Population.
New Castile			(Census, 1910.)
Galicia	. 5	27,935	1,923,310
Galicia.	. 4	11,254	1.985,422
Thorus 100	1	4.205	685,131
racon.	E	21.040	1,453,249
vad Castile,		19,194	1.314.369
Extremadura	9	16.118	
Anualusia.	0	33.777	882,410
Murcia.	. 0		3,829,000
Valencia	. 2	10,190	815,864
Valencia.	. 3	8,830	1,587,533
Catalonia.	. 4	12,427	2,084,000
Aragon.,	9	18.294	912,710
.vavarra	. 1	4,055	312,235
PRINKMINUSED	r)	3 63 6	
Balearic Islands	4		605,536
Canary Islands	1	1,935	326,023
The second of th	1	2,807	444,016

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PROVINCES

As there will be occasion to refer to the different provinces of Spain throughout this report, they are appended herewith, grouped according to territorial divisions:—

Divisions	Provinces
	Madrid, Tolodo, Ciudad Real, Cuenca and Guadalajara
Asturi	Ovledo
Leon	Colunna, Lugo, Orense and Pontevedra, Leon, Palencia, Salamanca, Valladolid, and Zamora,
Old Castile	Aviia, Burgos, Logrono, Segovia, Soria and Santander.
Extremadura	Badajoz and Caceres.
Andalusia	Almeria, Cadiz, Cordoba, Granada, Huelva, Walaga, Jaen and Sevilla.
Mi ceia	Murcia and Albacete.
V ncia	Valencia, Alicante and Castellon,
Catalonia	Barcelona, Tarragona Lerida and Gerona
Aragon	Zaragoza, Teruel and Huesca.
Navarra Vascongadas	
Balearic Islands	The Release Islands
Canary Islands	The Canary Islands



LEADING SPANISH TOWNS AND CITIES.

Spain has two cities with more than 500,000 population, seven cities with more than 100,000 inhabitants, and fifteen other cities with a population over 50,000. The following table is so arranged as to show the population of the principal urban centres:—

	pulation. 31, 1917.)	Cities.	Population. (Dec. 31, 1917.)
Madrid	648,760	Orihuela (Alicante)	35,286
Barcelona	621,419	Huelva	34.492
Valencia	245,871	Vitoria	34.304
Seville	164,322	Alcoy (Alicante)	33,382
Cartagena	162,519	Castellon	33,286
Malaga	140,975	Salamanca	82,971
Mureja	183,012	Burgos	32,675
Zaragoza	124,455	Antequera (Malaga)	32,215
Bilbao	100,461	Jaen	30.947
Granada	82,726	Pampiona	20,779
Santa Cruz de Tenerife	79,889	Elche (Alicante)	30.713
Lorea	72,795	La Linea (Cadiz)	30.005
Santander	72,378	Lerida	27,515
Cordoba	72,316	Logrono	
Valladolid	71,834	Albacete	27.089
Palma de Mallorca (Balearic Is-		Pontevedra	25,293
lands)	69,758	Tarragona	
Cadiz	66,106	Toledo	
Jerez	61,250	Leon	19,621
Corunna	60,483	Palencia	19,488
Las Palmas (Canary Islands)	60,334	Caceres	18,549
Alicante	58,088	Gerona	17.772
San Sebastian	56,779	Zamora	17,473
Oviedo	55,913	Orense	17,191
Gijon	55,088	Seguvia	15,357
Almeria	48,614	Guadalajara	12,932
Lugo	41.632	Teruel	12,574
Vigo	41,500	Cuenca	
Badajoz	37,600	Huesca	12,153
Linares (Jaen)	36,287	Avila	12,137

SPAIN'S ECONOMIC DIVISIONS.

From an economic viewpoint Spain may be divided into four principal zones:
(1) To the north a coastline belt, including Galicia. Asturias, Santander, and the Vascongadas provinces. This region is especially noted for its fisheries, timber resources, cattle raising, dairying, iron ore, coal and metallurgical industries.

(2) The central zone comprises the two Castiles, Leon and part of the Extremadura, and is economically important for its grain growing, animal wealth, quicksilver

mines, and its varied manufactures, centred in Madrid.

(3) To the eastern division belong the more northerly provinces of Aragon, Navarra and Catalonia (the last celebrated as the manufacturing centre of Spain), and to the southeast the provinces of Valencia and Murcia, which produce rice, the mulberry tree, and a great variety of fruits and vegetables, which constitute the semi-tropical gardens of Spain.

(4) Andalusia makes up the southern zone, where flourish various fruits and

where is found a wealth of copper, lead and iron ore.

CLIMATE.

Although Spain is bounded on three sides by the sea, its climate is one of the driest in Europe. Along the northern littoral there is a heavy rainfall throughout the spring and autumn months, while the district has long winters owing to its exposure to the Pyrenees. The edges of the central plateau, however, are so high, so abrupt and so near the sea that nearly all the moisture is condensed before the winds reach the interior of the country, which is subjected to extremes of heat and cold. The southern part of Spain, owing to its proximity to the Sahara and the narrowness of the Mediterranean, is exposed to intense heat during the summer, but the elevated

with more ,000. The pal urban

Population. . 31, 1917.)

35.236 34.492 34,304 33,388 33,286 32,971 32,675 32.215 30,947 30.779 30.713 30,005 27,515 27,138 27,089 25,293 22,988

22,115 19,621 19,488 18,549 17,772 17,473

17,191 15,357 12.932 12,574 12,392 12,137

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me of the ighout the s exposure so abrupt inds reach old. The rowness of e elevated

plateau makes the winter temperature much lower. In the valleys of the southern Sierras and the plains of the Mediterranean and Atlantic coasts, the spring and autumn seasons are stated to be delightful, while the winter may be considered mild and the summer as already intimated, tropical. In fact the Spanish climate is characterized by extremes and although skating is quite common around Madrid in the winter season, bananas, the sugarcane, and even the date palm ripen in the Guadalquivir basin.

OCCUPATIONS OF INHABITANTS.

The following classification based on the last official census of 1910 shows the occupation of the various inhabitants:-

lasses—			Percentages
Inhabitants economically active			. 34.91
rioressional classes			1 26
ivil servants			1 05
Persons financially independent			1.60
Domestic servants.			1 63
Members of families and of no occupation			. 59.55
Total			
Total			100.00

It has been estimated that the economically active population, i.e., the 34.91 per cent, are employed as follows:-

Description-								Of the 34.91%	Of Total Population
Agriculture and forestry	0 0	0 0		0.0	 		4.0	70.49	24.61
Hunting and fishing	0 0		0.0		 0.0			0.64	0.23
Mining	0 0				 			1.19	0.42
Manufacturing	0 0	0.1		0.0	 0.0	1.0	0.0	14.39	5.02 4
Transportation	* *				 	0.0	1 4	2.10	0.73
Commerce		* *	* 1	0.0	 	0.0	+ 0	2.13	0.74
Labouring classes				1.0	 	0 0		9.06	3.16
Total					 			100.00	34.91

PRODUCTIVITY OF THE SOIL.

A recent calculation indicates that 88.45 per cent of the soil of Spain is productive and utilized according to the table appended:-

Description— Agricultural lands and gardens Vinevards Olive culture Pasture grounds and woods Forests, natural meadows, waste and unimproved lands.	3.157,525 3,662,729 31,954,153	Percentage. 1
	111,650,084	88.4

THE AGRARIAN PROBLEM.

Spain being an essentially agricultural country, with the resources at her command as yet imperfectly developed, is seeking how best to remove the disadvantages under which agriculture is carried on. Herein lies the agrarian problem to which Spanish statesmen are turning their attention, conscious as they are of the fact that upon its solution depends the giving of a higher standard of life to the common people and the greater participation of Spain in international trade exchanges.

This agrarian question depends upon, among other factors, for its solution:-

(1) A greater use of the productive land existing, as only 48 per cent of the country is cultivated, approximately 50,000,000 acres, although but 11.6 per cent of the soil is unproductive. It is especially claimed (a) that large tracts of steppe lands by intelligent effort could be at least advantageously turned into forestal area; and (b) that a large number of the privately-owned estates now only slightly cultivated, should be turned into productive lands.

2 A more intensive use of the ground already under cultivation, which implies a forestation, extend arrigation, the employment of more agricultural machinery and the more plentiful use of chemical fertilizers.

The extinction of seigniorial domains and absenteeism and the formulating to local policy which will encourage and protect ownership of lands by the farmers

Thomas ...

1) The placing of more labourers on the land. The proportion of the popula devoted to agriculture is but slightly more than half that in France or Germany, sinte of the fact that in the national economy of the three nations, Spain depends to generative, to a much greater extent.

The retention at home of a larger portion of the population who emigrate, essecially to Argentina. In the last ten years before the war it was estimated that

to vodus amounted to 125,000 annually,

(6) An efficient system of agricultural credits by which the farmer will be enabled in the economic independence, thereby improving his standard of livelihood and in the first be able to provide himself with the education and the implements to make his fields yield the greatest production of which they are capable.

(7) The extension of good road-

3) The establishing of closer relations between the farming communities and who devote themselves to the technical study of agricultural production

(9) The greater use of experimental stations.

(10) The enaction of a comprehensive system of agricultural legislat oc.

AGRARIAN PROBLEM OF INTEREST TO CANADIAN EXPORTERS,

The solving of this Spanish agrarian problem has more than an academic interest the Canadian exporter. Its accomplished solution means a greater demand for its stall kinds, which demand will be coincident with the higher standard of liftereby achieved, while the working out of the solution entails inter alia a heavish portation of (a) agricultural implements and machinery (and even of the 48 per state of the land cultivated, no small part is farmed by primitive and inefficient tests), (b) of chemical manures (their need was continually brought to the ter's notice in his investigations), and (c) of pumps and irrigation installations. About 2,300,000 acres are at present under irrigation of some sort, but the equipment of its often antiquated. In addition, the present programme for irrigation will an another 1,235,000 acres under a watered area, and it is hoped to reclaim evently by irrigation some 10,000,000 acres of the national territory.

The working out of the Spanish agrarian problem should be deservedly watched

the Canadian exporter.

ESTIMATED VALUE OF FIELD CROPS, 110.

Viscount Eza in his Economical Problem of Spain gives the following estimates

Pastures and general cattle food. Hav and other forage. Straw. etc Corn (wheatt). Other oereals, maize, barley, etc	200,000,000 296,000,000 286,000,000 860,000,000
Peas, heans, etc	157,000,000 379,000,000 199,000,000 261,000,000 375,000,000
Rocts, potatoes, etc. Industriel plants Cattle products. Poultry, etc.	264,000,000 34,000,000 585,900,000 212,000,000
Total Other products non-classified, or not included in the statistics Probable total, in round figures	6,000,000,000

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It is evident, from the above trures, that Spain, as an agricultural country, is a half developed. Viscount Lack, more very of the opinion that upon the basis that it described a conference, or powerth some 12.50 cm. including testas could be product of an architecture. Other auteory is cree that, a moins of no bodie along it for deviation in the form of the region of a long true operation on the form of the ring braking firms, the artisl outer architecture and not only be doubled, but multiplied three or four times.

WIII VE.

Of the cereal production in Spain, wheat ranks first in importance both ascenards the area sown and the crop harvested. The principal producing centres are the two Castiles, Leon, and Extremadura. In 1911 there were seeded 10,348,687 to a via day 5,693,428 tens. The production was short of the 1917 harvest and was in fact the lowest yield since 1914. The table appended shows the volume of wheat produced since 1913.

Year	7.01 ~
1.	9 0 19 0 79
1 4 4	11 11 14 5
1 4 1	17 7 1 1 1
1916	 4.145.751
T	2 88 00 00
1 18	3, 124.4

The high-water mark in production was reached in the year 1916; and it has been argued that if such a harvest could be assured each year that Spain would be rendered practically independent of imported supplies. A query, however, arises in this connection, viz: 16 the Spanish Government is guaranteeing the individual producer for 1919 the sum of \$3.96 per bushed, will the Spanish consumer find it profitable to use bread made from homogrown flour when, with the eventual return to normal conditions, imported wheat may be had more cheaply? Already there is a lively protest against the increasing cost of bread in Spain.

At present, wheat almost exclusively of Argentine origin is arriving on the Spanish market, some 68,076 tons being imported during the first four months of 1919, but normally a harder wheat is demand for mixing with the native-grown cereal, and herein lies the Canadian opportunity. The quantities to be sold may prove to be limited, but an effort could wisely be made to sentre a part at least of whatever trade will offer in this line. In 1915 some 176,000 bushels and in 1916 some 132,054 bushels of Canadian wheat were imported although no expirts are recorded from Canada for the years 1913, 1914, 1917 and 1918. In 1913 Spain imported altogether 174,311 tons of wheat, while the average importation for the cuinquenniad 1911-15 amounted to 228,908 tons.

BARLEY.

The area sown in barley in 1918 amounted to 4.25%.892 acres, giving a harvest of 1,970,342 tons. The yields for the 1913-18 period were as follows:

Year			Tons
191'			1 497,000
1914		 	1.573,544
1 +1 -		 	 1,501,003
1316			 1.891 241
1417			1,697,324
1918	 	 	 1,970,342

Barley is most extensively cultivated in the two Castiles, Extremadura and in Andalusia. The average annual exports for the 1911-15 period amounted to 10,863 tons.

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RALLAND CATS

The $t^{-\alpha}$ wing table allocates the production of two dimers the exposure period 1913 is

Y + 17	Terri
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The area planted in 1918 was 1,839,752 agree.

Outs were sown ever an increase 1, 24,480 across in 1918 and yielded 442,330 tens. The lower yield over the 1913 48 period seas in 1915 when the production was 334,000 tons, and the larghest yield was in 1915 with 536,316 tons. The principal cut growing distincts are New Castile and Extremodura. In the classification of the leading Spanish exports, two is given at 8.05 tons per average year during the period 1914 15.

MAIZE.

The many explore 1948, v.z., 64%, 25% thus, was the lowest of any one year during the period 1943/48. In 1943 the production amounted to 637,000 tons; in 1944 to 727, 1923 tons, in 1945 to 730,084 tons, in 1946 to 727,546 tons; and in 1947 to 746,093 tons. The more devoted to make growing in 1948 was 1,482,742 hores. Maize figures on the ptaken is Span shown it's to the extent of 4,620 tons per annum during the more unit and 1944-45.

RH f.

Of the ther core ils, the sisted most important. In 1916 the yield an united to 241,707 tons gathered from 191,555 acres. The most important row ordining centres the province of Valencia, followed by Thringman, Gerona, Albenta, Castellon, Murch and the disternipant of the island of Mallorea (Balcarle Islands).

Rice normally is Spain's bading woral to export, the average shipments being 19,165 tous per year during 2.41-15.

THAT MINOLS PLANTS.

The area devoted to the growing of begunine as produce amounted in 1913 to 2,930, 1912 acre by older 500,304 tens of check peas, teans, peas, kidney beans, algoriba beans and other vegetables, apportioned as fellows:

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tern for the contract to be to	1.400
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I can rest to an inest argert at in the natural commit, constituting as they does not in the dark diet of the power people. In the quinenenniad 1911-15 Spain was diet of export about 5,000 tens of chick peas as smally, and of other legiminous or dark a me 6,000 tens. The acrosse deviced to these crops has increased since 1913 and the production has also reached higher levels.

Sear Jesient

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12,330 tons was 3314,000 cat-growing the leading 1 1911-15.

year during 914 to 727, 46,023 tons, our on the equal uene

m unted to one centre . Castellon.

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13 to 2,930,-

17.1 17.1 16.1 16.1 16.3

ng as they 1-15 Spain leguminous -ince 1913

GARDEN PROPECT.

More important, in wever, from an export point of view, is the garden produce rused in Spain which in 1913 experted 69,958 that of potatoes, 168,324 tims of onlons and garde othe best known Spain shomen, the Vacancia Grant, goes almost altegether cormuly to Great Britain eather for demestic compution or for recorpor trade), 19,874 tens of timeters, 4,517 tens of other garden produce, 10,488 tens of preserved egetables, and 6,650 times of prepart ground and not ground). Valencia and Murcia contain the most important truck farms of Spain, while the total value of the garden produce grown amounts to about 275,000,000 pesets annually. Over 1,100,000 acres are devoted to this kind of farming

Canada's imports of Spanish's retables amounted to \$25,262 in 1918, to \$45,751 in 1917, and to \$36,489 in 1918.

VINICILIUME.

After or calls and Graze, the tac is the most important agricultural product of Spain. From it is derived the expert trade in fresh grapes and raisins, and on it depends the important Spainsh with industry. The mean annual value of the Spanish vineyards now approximates 400,000,000 pesetas.

In 1918 the area devoted to grape culture amounted to 3,292,925 acres, the yield being 3,818,229 ions of grapes. Of this amount 3,620,956 ions were devoted to wine-making, some 22,567,618 hectolitres being produced. Raisins were made from 44,876 tons, the remainder of the production being consumed as fresh grapes. The area yielding grapes in 1917 was 3,155,400 a rest and 2,957,600 tons of grapes were picked. The most produced in 1913 was 17,405,203 hectolitres. In some years, such as 1915, cryptogamous diseases, particularly mildew and black rot, coupled with the persistent phillogena, deleteriously affect the grape harvest. Only 1,670,058 tons of grapes were produced in 1915.

The regions in which the grape is most extensively cultivated are Catalonia, La Rioja, Andalusia, New Castile and Extremadura. It is interesting to note that the province of Barcelona alone possesses more vines than the eight Andalusian provinces.

FRESH GRAPES.

During the quinouenniad 1911-15 the average annual export of Spanish grapes, which come principally from Almeria and Malaga, amounted to 54,109 tens. Normally the principal market is Great Britann, followed by Germany and the United States. The grapes are generally packed in barrels of 10, 20 and 23 kilogrammes.

CANADA'S IMPORTS OF SPANISH GRAPES.

Uanada takes a certain quantity of this Spanish product, the figures for the last vix years being as follows:

Year															
1 (1)															Pounds.
1411															231,291
1 15.															207,937
1 + 1 +)															31,244
1917							* *	* 1	 0.0		 	0.0	 		100,750
1917	 	 		 		0 0			 	0.0	 				236,402
	 	 0.4	0.0	 	1.0	0.1		0 0	 0.0		 		 	No	236,402 imports

 Λ direct steamship service between Canada and Spain during the shipping season from August to November would probably tend to increase these imports.

RAISINS.

Spain is also an important shipper of raisins. Denia in the province of Valencia and Malaga being the most important centres of this trade. During the five-year period 1911-15 the average exportation amounted to 18,334 tons. The raisins are

packed in boxes of 10 kilogrammes gross weight, 10 kilogrammes net, 5 kilogrammes net, 2½ kilogrammes net, 2 kilogrammes gross, 1 kilogramme gross, ½ kilogramme gross, in packages of 250 and 500 grammes, and in special de luxe parcels of 100-125, 200-250, and 400 to 500 grammes. One shipping house visited puts up thirteen different

qualities of raisins.

Out of the total Canadian importation of raisins in 1913, amounting to 24,423,150 pounds, some 4,842,927 pounds are accredited to Spanish sources. In 1914 the imports mereased to 7,350,722 pounds, or slightly more than one-third of the total importation. The government returns show that in 1918, however, only 189,910 pounds were entered at the Canadian customs as arriving from Spain, whereas 32,886,629 pounds out of a total of 33,187,420 pounds are entered as coming from the United States. In all probability at least some quantities of these raisins were of Spanish origin, as the two direct line between Canada and the Mediterranean during the Spanish fruit suppling season of each year was not in operation in 1915.

WINES

Subject to the climatic conditions of different parts of the country, various types of white, red and sweet wines and sherries are produced. The best known Spanish wines abroad in their natural state are the famous sherries and sweet wines of the Eastern coast from Tarragona to Malaga. The common red wine has been principally exported for blending with French wines. Great Britain has been Spain's best market

for sherry and generous wines.

In the quinquenniad 1911-15 Spain exported 2,699,665 hectolitres of common wine, 126,343 hectolitres of sherries and 235,785 hectolitres of generous wines annually. In 1916 the figures were 3,988,088 hectolitres, 171,191 hectolitres and 274,148 hectolitres respectively. The average annual production of wines in Spain has been 17,844,367 hectolitres during the five-year period 1913-17, although the production in 1917 amounted to 23,762,644 hectolitres.

ALCOHOLS AND SPIRITS.

In 1917 Spain also produced 272.242 hectolitres of liquors and 711,822 hectolitres of various grades of spirits and alcohols.

CANADIAN IMPORTS.

Spanish non-spackling wines have been the most largely imported into Canada, the figures for the six-year period being as follows:

	France.	Spain.	Grand Total Import even.
Year.	Gallons.	Gailons.	Gailo: 8
1944	238,543	2 (1 (6) 7 28 6 . 9 2 3 2 4 6 7 7 4	(42.711 934,321 710 672
1 15	95,991	176,044 140,177 110,807	497.748 712.17 711.021

DIGGS AND SKINS.

Another product of the vineyards worth over 13,000,000 pesetas annually are the dregs and skins from the wine industry.

THE OTIVE CHOP.

The next most important branch of Spanish agriculture is the growing of the clive. In 1918 the area cultivated with this fruit was 3,898,065 acres, giving 1,403,813 tons of

ogrammes nime gr ---, 5, 200-250, 1 different

24.423,150 he imports portation. he entered a out of a s. In all cit, as the mish fruit

rious types n Spanish ms of the principally pest market

amon wine, s annually, .148 heetocen 17.844,on in 1917

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olives. Of this amount 1,356,057 tons were used in oil production, yielding 255,202 tons of oil. The oil produced during the 1913-18 period was as follows:

Year.			Tons.
1913			 265,422
1.414			 207,764
10.1		, ,	
Tair.			
1017			
1918			 25 (202

The great olive oil producing centres of Spain are Andalusia, the Levant. Old Castile, Extremadura, and the four provinces of Catalonia.

In spite of the fact that the olive tree is of a hardy nature and of a drought-resisting character, and sometimes flourishes where little else will grow, the crop is eften very irregular. Sometimes, as in 1917, the oil crop is over 427,000 tons, and at other times, as in 1912, he crop is below 65,000 tons when but 63,000 tons were produced. The average yield during a ten-year period was 200,000 tons approximately. The amount of rainfall considerably influences the quantity of olive oil produced, and hence the oils of northern and southern Spain differ considerably. The quantity of olive oil in the olive varies from 12 to 30 per cent according to the variety cultivated. It was stated that the present tendency in Spain is toward cultivating the olive which yields the timer oils of more delicat, theyour and of greater transparency.

OFFIVE AND OLIVE OF EXPORTS.

Spain exported annually during the period 1911-15, 13,113 tons of olives and 48,524 tons of olive oil. In 1916 the respective figures were 23,986 and 88,852 tons. At one time the Spanish olive oil was to a large extent sent abroad, particularly to France and Italy, in a crude state, refined there, and afterwards exported as French or Italian olive oil. More recently, however, the Spaniards have turned their attention to refining the oil in their own country and a noticeable progress is taking place in this industry.

ANADIAN IMPORTS OF OLIVES AND OLIVE OIL.

Tile Canadian imports of olives and olive oil from Spain and the total quantities imported from all countries are given hereunder for the years 1913-18:

	Offices.		
Year,		From Spain. Gallons	Total Quantity Imported Gallons,
101 - 1 2 - 2 - 11.		1.7 10 7 10 7 10 7 10 10.2 1 8 (70 70,727	272 253 150 201 212,134 213 316 160,317 263 120
	Olive Oil.		
		From Spain, Gallons,	Total Olive Oil Imported Gallons
1971 1911		1 27 4 3,104 1,4×× 11,209	197,286 183,191 217,975 191,785
1917		25 589 28 013	246.787

Italy and France up to 1918 had been our largest suppliers of olive oil, but last year the Spanish exports (38,013 gallons) were higher than those of Italy (23,802 gallons) or of France (24,386 gallons), and were only surpassed by the declared exports from the United States, viz., 57,926 gallons.

It is of further interest to note that the Canadian returns for 1915 show the first declared importation of Spanish olive oil for soap manufacture and fish canning, the figures being 12,983 gallons out of a total importation of 33,124 gallons. The remainder are entered as from the United States.

Spain is also at present our most important supplier of olives in brine, although

that place was held by Greece in 1913.

FRUIT FARMING,

The last official estimate gives 1,128,000 acres as devoted to fruit farming in Spain the total value of the fruits grown reaching a value of over 261,050,000 pesetas.

ORANGES.

The orange yield is the most important as regards. Spain's fruit trade, are averaged during the quinquenniad 1905-09, 839,531 tons, valued at 68,930,000 pesetas. In 1917 the crop gathered amounted to 569,065 tons, valued at 68,287,973 pesetas. The domestic consumption of oranges is very small, and the truit is cultivated mainly for export. The principal producing areas a sethe districts of Valencia, Murcia, and Andalusia, the first mancel producing exports 2 seas third of the total orange crop of Spain. About 122,000 acres are devoted to orange cultivation.

What are known to the trade as "bitter oranges" come from the Seville district. These are largely exported to England for marmalade-making, and the trade

is almost exclusively exploited by English capital.

During the quinquenniad 1911-15 Spain's annual exports of oranges averages 501,536 tons. Normally about one-half of the production goes to England

CANADIAN IMPORTS OF ORANGES.

According to Canadian Government returns, the value of oranges imported from Spain was \$7,327 in 1913, \$17,967 in 1914, \$20,390 in 1915, \$11,957 in 1916, \$21,847 in 1917, and \$23,495 in 1918. The value of the Spanish exports has more than treblec during this period, while the value of the exports from Italy has fallen from \$42,386 in 1913 to \$7,609 in 1918.

ALMONDS.

The Spanish almond trees yield about 25 per cent of the world's supply, the other

sources of production being Italy, Greece and Asiatic Turkey.

During the quinquenniad 1905-09 the Spanish production of almonds average 99.773 tons, valued at 49,264,000 pesetas. In 1917 the crop yielded 100,029 tons. The leading centres of production are Alicante, Malaga and the Balearic Islands. As a agricultural product, the almond tracis especially profitable as all of it is put to some use, the nut, the wood, leaves and shells.

The "Jordan" almond, or large and best quality almond, is experted principally for table consumption, while the ordinary or smaller size "Valencia" almond find its principal use in confectionery manufacture. The sweet almond is also used for making medicinal oil and cold cream, while from the oil of the bitter almond, sear and peader are manufactured. Almonds in the shell are shipped generally in jut sacks containing 122 pounds or one tanga, while the shell or cleaned almonds are pacted in wooden boxes helding 28 pounds. Two of the largest almond sorting an shipping plants in southern Spain were visited, and it was interesting to note low every "Jordan" almond was headled at least once, while the culting of the less varieties of "Jordan" almonds necessitates a picking over at least three times. The sorting plants are almost entirely operated by women.

As the almond crop is not perishable, the abnormal conditions in shipping durin the war did not care the same loss to the almond merchants as to the fruit dealer although scarcity of vessels and enhanced freight rates naturally curtailed shipments ow the first conning, the c remainder

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Seville disid the trade

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ids averaged 19 tons. The ands. As an at is put to

I principally almond finds also used for almond, soap rally in jute almonds are sorting and to note how of the last times. The

oping during fruit dealers, d shipments. Spain's average experts of almonds during the five-year period, 1911-15, amounted to 11,571 tons. The leading markets have been London, Hamburg, Marseilles and North and South American ports. The shipping season is from September to December.

ALMOND EXPORTS TO CANADA.

Spain leads in the exports of almonds to Canada, the following tables showing the total quantities imported and the quantities supplied by Spain during the 1913-18 period:

Almonds not Shill 1.

Year.									From Spain, Pounds.	
1011	 4 4	 	 						373,4 1	991,215
1915	 	 	 	 			 		 101,904 330,666	684,64 · 632.61
1917	 	 			* *	* *	 * *	* *	 295,789	648,611 733,155
1918	 * 4	 0 0	 	 			 		 299,395	804 367

Almonde St. T. 7

Year.											From Spain. Pounds.	
1:1			 				 		 	 	767,928	1.026.197
1916	0 0	0.0	 • •	٠.	• •	٠.	 	* 1	 	 	581,721	831,927
105											605,505	1,258,740

The heavier arrivals latterly declared from the United States would seem to indicate that some Spanish almonds are entering Canada as re-exports from the United States. Almonds are also re-exported from France and England to Canada.

HAZELNUTS AND PEANUTS.

The Spanish hazelnuts which come from the province of Tarragona are also of commercial importance. Some 9.841 tons were exported annually during the quinquenniad 1911-1915. The peanut has only of recent years been introduced into Spain and these grown are generally small or of but average size. The home production, however, besides satisfying the domestic consumption, allows some for export, and in 1913 5,364 tons were exported.

MELONS AND PLUMS.

The melons of Valencia, Mureia and Andalusia are of a fair quality and in normal times are shipped extensively to British ports. In 1913 the total exportation was 7.789 tens.

Plums, of which there are more than fifty varieties cultivated, yield on an average 26,000 tons annually and form the basis of the important industry of preparing prunes, which is carried on in the Vascongadas and Guipuzcoa provinces. The drying is done in the villages by exposure to the sun and quite considerable quantities of the dried from are exported to France.

LEMONS.

The lemon crop is about 35,000 tons annually. The exports in 1917 were 7,105 tons.

Citric acid and lemon essence are made to a small extent but the fruit is principally used for table purposes at home. Spanish lemons up to the present have had little interest for Canada.

Ile.s.

Among the various Spanish (ruit crops, the cultivation of the figure up is a promment place because of its widespread growth and because of its use as a food product, the dried figurescript as a common tood for a large part of the power classes. In years of great abundance, moreover, the fig is used for fattening pigs.

The fig tree grows throughout the peninsula, but reaches its highest development in the south of the peninsula and in the Balourie Islands. Government agree noists a tow years ago estimated that the value of the product of the figures is surrassed only by the grange, the almond, the car is and chestnut in the order named.

About 151,000 tons of tigs are produced annually, and 5,456 tons of dried tigs were

experted in the year 1915.

Canada's appetes widdled the from Spain, we can till eas during the last six years.

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	<u> </u>	4,101,204
	× 1717	0 277,450
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Turker, the United States are Paring Lagrather deet simpliers, normally, if the total control Spain in the Government returns stands tourth.

TILLY 190 10 (15.

The received annual yield of the other principal fruits are given hereunder; -

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11.	310,555
1 · · · · · · · · · · · · · · · · · · ·	70,146

These from the real setty used for home consumption and are of little interest as regards expert. In execut the real hand apricot, which form the basis for an important purporal hand home industry, which in these two lines especially is devoted to expert trade. In that the preserved trult inclustry in Stalla may be classified as one of the ranking industries, and considerable quantities of Spanish fruits are well put up both in the analysis.

CANADA'S IMPORTS OF SPANISH TINNED FRUITS.

Canada has imported relatively small amounts of cannot fruit from Spain, the figures for 1913 Leing 60,657 pounds, for 1914, 118,403 pounds, and for 1918, 91,180 p. ands.

RESIME OF BUILDINGS.

The total quantity of all the Spanish fruits experted in 1913 amounted to 710,059 tens, valued at 114,000,000 pesetas, to which must be added the fruit poly one preserved fruits exported, which in 1913 totalled 7,223 tens, valued at 1,805,950 pasetas.

SUGAR GROWING.

Both the sugar feet and the sugarcane are grown in Spain, but while the production of refined sugar from the former shows a fairly steady rise in volume, there is registered a corresponding decline in that refined from the cane. The production for the last eight years is given hereunder:—

	s grien n	 					Cane Sugar. Tons.	Beet Sugar. Tens
Year.							16,176	43,213
1 1							13,231	113,755
1.11.							5,545	101 815
1916		 	 	 				106,444
4-17							\$ thatth	125,516
1918	(estimated							139,572

Normally Spain supplies almost all her own sugar requirements, imports in 1914 amounting to only 6 tons. Imports, however, rose as follows: in 1915, 18 tons; in 1916, 18,330 tons; in 1917, 39,172 tons; and in 1918, 15,194 tons. The explanation of this reversal may be had in the fact that Spain during the war became an exporter of signer, and has her experts were heaviest when her imports were practically negligible the reserves in the country were scriously drawn upon. In 1911, for instance, 11,472 tons were exported, and in 1915, 8,756 tons. The greater part of the imports since 1916 have, however, been probably used at home as the exports in 1916 (2,531 tons), in 1917 (4,582 tons), and in 1918 (631 tons), have been much lower than in the immediately preceding years.

The sugar refiners are at present demanding a very high teriff on imported sugar as they fear with the return of lower freight rates the local manufacturing will prove approfitable. The present duty on sugar is 60 pesetas per 100 kilogi annes.

The number of factories actively engaged in the cane sugar industry was 17 in 1916, 16 in 1917, 15 in 1918, and 9 during the current year. In the best sugar industry the magnesiare as follows: 1916, 27; 1917, 31; 1918, 31; and in 1919, 28.

SAFFRON AND LICORICE.

The cultivation of saffron is worthy of note in passing, as it is a specialty of Spanish agriculture. In 1917 there were 31,015 acres under saffron cultivation, the crop amounting to 124 tons. In 1913, 97 tens were exported, valued at 9,723,900 pesetas. Another agricultural export of some importance is licorice, some 2,495 tons, valued at 1,274,418 pesetas, being exported in 1913.

FLAX AND HEMP.

In 1917 some 4.440 acres were devoted to flax growing, chiefly in the provinces of Galicia, Astur is and Leon, yielding 1.449 tons of flax altogether and \$56 tons of fibre. The native hemp production amounted to 13,332 tons, gathered from 15,745 acres,

although the actual fibre obtained only totalled 7,394 tons.

Both flax and hemp cultivation are gradually losing their importance in Spain, jute ir in the rand hemp from Italy being imported for the native industry. Homegrows, and a corted flax are both employed in the making of linen, fine damasks, and handkerchief linens.

SILK COCOONS.

Spain stands next to Italy in the production of silk cocoons. The average annual production since the beginning of the century has been 711 tons, of which two-thirds are raised in the province of Murcia, where clin arise conditions favour the growth of the mulberry tree. The greater part of the raw s. x produced is exported to the injury of silk weaving in Spain. The Government is encouraging the cultivation of the mulberry tree by the granting of premiums, and experiments recently made to increase the

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Spain, the 1918, 91,180

d to 710,059 i pulp and at 1.805,959 cocoons from a given quantity of eggs have resulted in augmenting the number by about 25 per cent. There are moreover twenty-seven schools for the study of sericulture in the different provinces, while three important silk associations in Barcelona, Murcia and Sevala are interested in presenting sericulture and silk textile manufacturing in Spain.

SPANISH FORESTS.

The Iberian peninsula, ranging from 1,969 to 2,297 feet in elevation, is composed of various plateaux traversed by steep mountain ridges, many of which are sterile, while others afford a certain amount of pasturage and still others are covered by forests of pine, which constitutes the most important commercial lumber of the peninsula. It has been recently estimated that the forest area of Spain and logether about 27,100,000 acres, of which about 9,800,000 acres are more or less regularly wooded. The number of pines in Spain are calculated at over 10,000,000, covering an area of approximately 300,000 acres.

CORK.

The car', it is strend over 610,000 acres, the principal growing centres being the provinces of Gerona (198,000 acres), Huelva (133,000 acres), Caceres (80,000 acres), Sevilla (69,000 acres), and Cadiz (49,000 acres). Cork is a snew of tree resembling the oak and like it bearing acorns, and is so constituted that its back can be removed every seven to ten years without damaging the tree itself. In Catholical the confit tree is actually felled for its timber, but it is the manufactures content with its back which give such importance to this tree.

In 1912 there were produced in Spain some 78,000 tons of corkwood or raw cork, of which a little over two-thirds came from the province of Seville. The yearly production averages about 50,000 tons.

In 1913 Spain exported 9,564 tons of manufactured cork, 3,912 tons of cork planks, and 44,410 tons of cork dust. Sales of manufactured cork products have been particularly confined to the United Kingdom, as most countries have had a fairly high protective tariff on the finished article.

THE CORK INDUSTRY.

Normally there are between 30,000 and 40,000 operatives engaged in turning out the various cork products manufactured in Spain, e.g., bottle stoppers, discs, slave soles, fishnet floaters, life-preservers, cork paper for cigarette tips, and hats for the military and police. Cork in sheets and planks is used for building and floor coverings, while cork waste is utilized in lineleum-making. As is evident from the foregoing, the raw material comes principally from the south, although the manufacturing is now centred in Catalonia where there are several well equipped factories. The industry at Seville and throughout southern Spain is not so flourishing as formerly, although one of the most important cork companies in Spain is located in that city and in spite of the fact that there are many villages throughout the south where cork manufacturing gives considerable employment.

ESPARTO GRASS.

Esparto grass, used in the manufacture of high-class writing and printing paper, especially in England and Scotland, is one of Spain's most distinctive products. In fact Spain is the only European country producing this grass. Although greater supplies are obtained from the northern coast of Africa (Algeria, Tunis and Tripoli), yet in a normal year Spain sends about 40,000 tons of the first quality esparto grass to the United Kingdom for papermaking. The Spanish growth is confined to the ferro-calcateous soil of southeastern Spain, in the provinces of Murcia, Albacete,

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Granada and Almeria. The production is especially decreasing as the grass is hardly susceptible to cultivation, and as the esparto areas become barren the lands are gradually being put under other crops.

OTHER INDUSTRIES DEPENDING ON FORESTS.

Besides the cork and esparto products of the Spanish forests, there are several ther relatively important industries connected with Spain's forestal resources, viz.:--

- The sawing of lumber, principally pine, for general construction purposes, pit
 props and lox shocks, etc.
- 2. The cutting of oak railroad ties.
- 3. The making of chestnut barrel stoel:.
- 1. The construction of furniture from various native woods.
- 5. The production of charcoal.
- 6. The extraction of juniper oil, resin, tannin, turpentine, and licories.

ANIMAL WEALTH.

The number of tarm animals existing in Spain in 1918 amounted to about 01,101,576, of which it is estimated about 2,500,000 were work animals, comprised of mules, asses, oxen and draught horses. As in mountainous countries, the great importance of the mule in Spain is self-evident, and the Spanish mule is considered not only strong but fatigue resisting.

The shope it cluding the famous "merino" type, highly prized in England, France and Germany for breeding purposes) and goat predominate in Andalusia, Extremadura and Leon, the horse in Extremadura and Valencia, the mule and ass in Aragon, Castila and Extremadura, the pig in Extremadura, Andalusia, Salamanca, and the Balcaric Islands. If the fixed figure of 100 be taken as representing the number of Spanish farm animals existing in 1912, the index number representative of the year 1918 would be 118. Thus an upward movement is noticeable in the animal wealth of Spain.

NUMBER OF ANIMALS.

The number of different farm animals in Spain was officially estimated to be as follows in 1918:

11, - 1 14, 1 1			Nimbers
Horses	 		 557,676
Maries			1 012 594
Acres			423,446
CARS			3 233,200
81.,,,			17.217 61 4
fire.th			4.181.942
P.ES			5.919.449
Camels (Canary Islands)			- 1000

THE FISHING INDUSTRY.

In the Spanish fisheries the number of boats employed amount to approximately 791 steamers and about 14.721 sailing boats. In 1916, 83.150 men were employed in the fishing fleet. The average catch of fish amounts to about 145,000 tons annually, over 93,000 tons being caught in the El Ferrol discrict, which comprises the northern and western coasts of Spain. The other big fishing districts are found at Cadiz and Cartagena. Spain consumes about 120,000 tons of domestic fish a year, thus leaving between 25,000 to 30,000 tons annually for export. The most important catches are sardines, tunny fish and cod. There are about 1,400 factories in Spain engaged in treating and preserving fish. Over 1,000 of these are in the maritime district of El Ferrol. Some 50,000 tons of fish are salted, canned, or prepared in brine, in the above factories, where some 20,000 operatives are employed. The total value of the fish caught in Spanish waters during 1916 amounted to 901,833,250 pesetas, while the export of sardines and preserved fish was valued at 27,387,985 pesetas.

MINERAL WEALTH,

Spain is rich in minerals. Iron is abundant in the provinces of Viscaya, Santander, Oviedo, Navarra, Huelva and Sevilla; copper in the provinces of Sevilla, Cordoba, and Huelva; coal is found in Oviedo, Leon. Gerona, Valencia and Cordoba; zinc in Santander, Murcia, Guipuzcoa, and Viscava; lead in Murcia, Jaen and Almeria; manganese in Oviedo, Huelva and Sevilla; quicksilver in Ciudad Real and Oviedo; cobalt in Oviedo; silver in Guadalajara; sulphate of soda in Burgos; salt in Guadalajara; sulphur in Murcia and Almeria; phosphorus in Caceres and Huelva; platinum in Rhonda; and potassium salts in Barcelona.

PRINCIPAL VARIETIES OF MINERALS FOUND.

The principal variaties of minerals found in Spain, together with the quantity of their production in 1916, are given hereunder. (These figures are the latest will label.)

In the state of th	Ton
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VALUE OF THE MINIS.

The total amount of minerals taken in 1913 amounted to 61,703,089 tens, valued to 269,744,912 pesetas at the pit mouth, while the output for 1916 was considerably lover, once 14,295,204 tons being produced, although, owing to higher market prices to monotary value, 3,2,855,785 peset is, was much higher. The number of productive times concessions in 1916 was 2,009, covering an area of 279,767 hectares, as compared with 2,303 concessions in 1913. There has also been a perceptible falling of the number of workmen employed, the figures for 1916 and 1913 being 118,183 and 143,950 labourers respectively. In 1916, 3,644 machines were employed in the mines and smalling works using 233,019 horse-power.

IRON ORE.

In the year 1913, Spain's iron ore production (9,861,668 tons) reached the highes mark since 1907 (9,896,178 tons). There was a dropping off, however, in the output luming the years following the outbreak of the war, and in 1916 only 5,856,861 ton were extracted. The principal producing centres are along the northern littoral in the provinces of Viscaya and Santander, and in the south at Almeria. Interio deposits, owing to lack of transport facilities, are not yet worked profitably.

Normally, the greater part of the iron ore output is experted, and of the approximately 10,000,000 tons produced in 1913, some 9,000,000 tons were shipped abroad leaving 1,000,000 tons for home manufacture. Smaller production in 1916 allowed

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considerably arket prices, it productive res, as come falling off 118,183 and the mines,

the highest the output \$56,861 tons n littoral in a. Interior ably.

the approxiped abroad, 1916 allowed only 2.743.487 tons for export, which was increased to over 5,000,000 tons in 1917. Between 1870 and 1914 Spain exported 230,000,000 tons of iron ore, three-fourths of the went to Great Britain.

It has been estimated by experts that Spain's reserves of iron minerals amount to 900,000,000 tons. If it be calculated that 900,000,000 tons of ore will produce approximately but half that amount of pig-iron, it will be seen that, provided the lieve estimate is correct, the development of these deposits must of necessity be limited. England's pre-war output of pig-iron would consume that quantity of or in forty-five years. Spanish ores are practically all hematite, and generally range from 45 per cent to 60 per cent of metallic iron.

As in Germany 50 per cent of the steel produced is by the basic process, that the process is a position to take the lower grade Spanish ores, i.e., high in sulphur and silicon, whereas Great Britain, producing approximately a similar percentage by the acid process, has demanded the best Spathic and rubios (i.e., ore, high in metallic iron and low in sulphur and silicon). This latter is being gradually used up, and the inferior grades will increasingly be offered by Spain to the world's markets. It may further be noticed that with the decline of the iron ore trade of the Bilbao and Santander districts, there will come in all probability a development of the interior deposits, and the construction of the necessary railway facilities to transport the ore to the shipping ports.

The principal iron ore holdings in Spain are in British, French and Spanish hands. The Krupp firm had a 25 per cent interest before the war in one of the large British companies.

COPPER.

Spain normally produces about 3,000,000 tons of copper annually, the most important deposits being in the provinces of Huelva and Sevilla, where are found extensively-worked iron pyrites mines, the ore contents oscillating from 0.5 per cent to 5 per cent copper, 35 per cent to 49 per cent sulphur, with proportions of iron and silica. Here the size and suitability of the deposits allow open working of the mines.

The other principal copper mines are in the province of Cordoba, Badajoz, Ciudad Real, and Jaen, but their exploitation is not so remunerative as the copper ores must be handpicked, crushed, and concentrated before they are ready for the smelters. Moreover, these deposits are worked with much more difficulty as they are generally smaller and at greater depths. The pyrites of the Huelva district, on the other hand, yield with comparative case a high-grade precipitate, a fact which renders the Leaching system more profitable.

It is stated that all the important mines are either now being worked, or their concessions already granted, although experts are of opinion that the copper output of the mines now being exploited can be readily increased threefold. The famous Rio Tinto mines in the province of Huelva own deposits containing iron pyrites from 2 to 4 per cent copper of more than 100,000,000 tons, while it is estimated that some "100,000 tons are accessible in other provinces."

LEAD.

The output from the lead and silver-lead mines of Spain amounted to 260,282 and 7,370 tons respectively in 1916. In 1913 the figures were 279,878 and 23,600 tons, and in 1907 the lead mines yielded 113,632 and the silver-lead mines 165,289 tons. The data existing concerning this mineral are very incomplete, but a life of from twenty-nine to thirty years may be estimated for these mines on the basis of their present annual production. In 1916, 1,788 tons of lead were exported, and 385 tons of silver-lead ore. The province of Jaen is the centre of the lead-mining industry, although deposits are the found in Hudve, Sevilla, Cordoba, Granada, etc. In 1914 there were \$20 productive lead mines in operation.

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Very specification on the state of the control of the annual control of the provinces of Action is and Santandor, and it is a commended that the tree of the mines and of the control of t

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It is estimated that the Spanish coal fields contain an actual reserve of coal and 20. It is the ting to about 8,500,000,000 tous, extending over an area of 3,340 square in a relativistic in mire different provinces, the most pronounced earboniferous listenet being Asturias, where the actual reserve is said to be 3,200,000,000 tons, while the province of Teruel has 650,000,000 tons of manifold in the

The total production of coal during the years 1913-1916 is given beteinder -

	1 + 1	1 - 1 - 1	1 14 7	1616
4	, "	6 1	1 1 1 1	1 < 17 175
Y	* 7	5 . · · · · ·	** *	1
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7	1 40 723	1,121,1 1	1,500 751	7 - 5 665
	* A			

In 1917 the total quantity mined amounted to 5.972,000 tons, and in 1915 to 7.164,000 tons, i.e. an increase over 1913 of 2.871,000 tons

If, however, the war-period question was how to produce more coal, the question to-day, with the Spanish output practically equivalent to the Spanish output practically equivalent to the Spanish of suppliers, is how best to protect the national industry; and various schemes are being urged on the flatteness of spain independent of foreign supplies. It is feared that a contraction of the home demand, consequent to the peace, may take place, and if

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from abroad, the prosperity of the coal mines achieved during the suppose therefore that the Government will continue to aid this native of the suppose therefore that the Government will continue to aid this native of the suppose therefore that the Government will continue to aid this native of the suppose therefore that the Government will continue to aid this native of the suppose of the suppose that her suppose therefore that the suppose of the supp

It has to be remembered that the Spanish mines contain numerous veins of coal to the beam self only with difficulty on up to the instant supply, the relatively perspective beam self only with difficulty on up to the instant supply, the relatively perspective beam of the following the relatively perspective beam of the following the relatively perspective beam of the following the relatively and long deposits. It is stated that the mines of Leon and Palencia, hemmed in by rocky formations, are so irregular that in some places and the following the following the following the state of the many long to the result of mining bands are relatively so small that the expension of the following the foll

It is of interest to note in passing, that whereas each collier in the United States 1975 to 1

4111.

Spain's output of salt in 1907 totalled 605,895 tons, in 1913 only 60,420, although in 1916 the production reached 895,929 tons, which was slightly lower than in 1914, when the production was 927,767 tons. In 1916 Spain exported 423,034 tons, and in 1917, 1918 to 1918.

Start start is exported to Carada for use in the dried fish industry, the declared time of rathe 1917 is period being as follows:

Year. 1913		 		 	 			Quantities (cwts). 367.823	Total Quantities Imported (cwts), 2.797.272 2.00408 2.00408
				 	 	 		420,000	2.772.724
1917	 	 1 0	 1.0		 		_	479 045	8,169,716
1 120			 	 	 		,	4.23.095	3.547 010

OTHER MINERALS.

Spain possesses small deposits of wolfram, tin and sulphur, principally in Extremadura, Zamora and Galicia, but the deposits are of no great commercial importance. The manualness mines are also not very important, although some are being worked in a small scale in the provinces of Huelva and Asturias. There are other mines, however, as yet unworked, in the province of Lugo, which contain highly manualiferous transfer.

Recent reports indicate that potash salts have been discovered on the borders of the Pyrenees in the localities of Lerida and Huesca. Other deposits exist at Torrevieje, Cally and Torrelavaga. It is also interesting to note that in October, 1915, important that num deposits were discovered near Rhonda.

Spain possesses comparatively large resources of building material, such as marble, limestone, granute and slate. Banxite, too, exists in certain localities.

Mention may also be made of the mineral waters of Spain, which are contrared over almost every province, particularly in the more mountainous country.

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THE METALLURGICAL INDUSTRIES.

The metallurgical plants are located principally in the provinces of Viscaya at Navarra, and at the last census of 1911 numbered fifty establishments, although the part has added to the national strength of this industry.

THE IRON AND STEEL INDUSTRY.

In pre-war years Spain produced on an average between 450,000 and 500,000 to pig-iron annually, while the calculated yearly increase during the war is stated be about 200 to the late. It has been further estimated that Spain will be able eventual to turn out three times the pre-war production of pig, and in such an eventuality when in a position to export as it is unlikely the national industry will consume the to output. Both hard-grained pig and foundry pig are manufactured, and the count is tractically independent of foreign supplies except pig for the production of very figure. Not only the native ore, but scrap iron to some extent is used in the manufacture.

Sixty per cent of the iron and steel industry is in the hands of a powerful syncate, which directs several individual companies, regulates prices and distribution, we troporte nate relates to its customers at the end of each year, and which presently controls the industry in its larger ramifications. The seat of this companies operations is near Bilbao, and its blast furnaces, converters, and rolling mills we writed by the writer.

Am ng the least and steel products made in Spain may be enumerated ingo Licens, UTets, shale, small and large iron castings for railways, mines and shape of - product st 1, 1 s paring the traperst

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Viscaya and although the

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I rest a sentite to member of Spot fundres a 201. and the form of the tracking states on Alban 100,000 tons of from and steel : 1.1 is produced a risk, the constitute estimate on stag of rolled steel served appet of record tool products averaged normally Seguen tons, derived, and the Arabeth Rolling, Commercial test mited States

WHITE MEAN 'S RESEAT PRODUCTIONS.

Stock is the most and ortant har pean country for lead production and stands or of a tre word's end producing country, being only provided by the United ser. About 200,000 t as of lead in ters are produced annually, and this industry - 1 it importance os ag to the amount produced, the value of the production, and " committee experted

I've furnites for the reduction of narcury at Almaden are said to be the largest tions and in the world. These furnaces are vertical, evandrical, 6.56 feet in diameter 1.1 1" 60 feet high. The mercury ore ranges from 1 to 25 per cent pure mercury nd is graded as superior, medium, and poor. The mercury is sold in flasks containing .cg : \matelv 78 pounds.

I . 1: pal zine minerals treated are calamines and blendes, which are prea ped, an end and endered in the turnaces, the production being sold in bars, lumps, cakes, sheets and in manufactured articles

In impulse has been given to manufacturers of copper in connection with the

THE TEXTILE INDUSTRIES IN SPAIN.

Spain possesses many important textile manufactories, including the production : ...tton, wootien, silk, linen, hemp and jute goods, and though dependent mostly on toreign sources of supply for the various raw materials used, except in the case of wallen goods, the development has been steady, while the impetus received by war demands, stimulated an unprecedented activity, and rendered the industry in its different branches stronger than ever.

One of the world's great centres of cotton-goods manufacturing is situated in Bareelona and neighbourhood, where is turned out 56 per cent of the national pro-

Over 100,000,000 pesetas is invested in this industry, which runnings over 3,500 factories and employs 175,000 hands. The yearly output is valued at 640,000,000 pesetas. The industry as a whole operates about 2,130,000 spindos, of which 2,000,000 are employed in Catalonia, 60,000 in Malaga, and 40,000 in the northern provinces of Spain. The greater part of the factories in the Barcelona district (or 1,600,000 spindles) emp' water-power derived from the Llobregat and Ter rivers and during the last ye - of the war were operating day and night. There are about 50,000 cotton looms, 45,000 of which are found in Catalonia, the other 5,000 being situated in Andalusia and the northern provinces.

Cotton piece-goods, velvets, and yarns in all grades are manufactured, as are also woven garments and various kinds of knitted goods. Spinning and weaving, dyeing, printing and finishing processes are carried on in up-to-date mills, and the whole industry is equipped with modern plant and machinery.

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An extensive extent trade is carried extensive, principally at the Sun American construct and the Near East, the tradegual extensive during 1911 averaging SULL test. Dr. 1916 the extensive extensive tradeguals are respectively.

THE WORLDS AND STRY.

The production of weedler goods rains so continuities spanish textee industries Some 10,000,000 per this are givested in over 2,000 thefores engroying as a respective of This industry especially the stunning brain solid increased of delivation are of 6000, followed by Abrante (250), Burges (140), Germa (116), Some et 110), so in Termel (500).

The wool chiefly used is of damest verigon, although it is frequently washed at combind in other countries and there is expected to Spain. The smaller unitaties in partial words used are purchased normally in French. Finalism and Belgian marked West waste, and we flen rags or varies, is also extensively used after special time to be an ideal and increased priors. Note they are not again to a some against a control of a vasiling or books or varies had not also discussed at our against a control of a vasiling or books or varies but a good dead of most other at romatures as a copied of the variety affords special field that if it takes for this society a process. The down process consists in strending out the vasility of a resulting framework affords special delices. We have used the true process decreased in the configuration of the control of the variety of the var

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OTHER DIXERS MANUAL DRIE

The bemp, flax are unto textile industries have also contain inner tract. I 1913, the total number of establishments engaged in spin and weaving been jute and linear goods, an emited to 770, some 111 plants bear a situated in the province of Barcelona, 66 in Ali ante, 60 in House, not 00 in Zar or . The increasing demand for such textiles during the war gove a certain stient is the first traction price. The brach redustry is, of those three, the best devoter different.

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The hand that le Sparish have the weather was and their thing is correct throughout the remarkable principally in Catalant, to this and Almogra-

THE LEATHER INDUSTRIES

According to the last of monocurrenter, Spain and some 1,364 establishment engaged in turning out bother goods of various ands. The product of Barcelon loads again in contributing centres, about 400 tanners, and finishing plants being here I catch. The province of Palace has 150, Vacc. as 100, and Coruma 9

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Directionales are utilized chiefly and the faming crosses as carried on by the control varieties. During the war the heavy demand for costs and shoes and their control products gave a pronounced fillip to this national industry and consider or manifess of raw hides were imported.

I not and show industry is centred in the Balcanic Islands and Bancelona, i.e. invited by good best is turned out at a moderate proce. Leather celting for industry and faces cention goods are also manufactured.

THE PAPER INDUSTRY.

The production is some of Spain's oldest inconstries, and the production has a property in the hands of the Papelera Espanda, which controls and operates the majority of the most important the country. The last industrial census showed that 304 factories were explicitly that a utiliferent grades of paper, the redinary newsprint, conditionard, the country of the most important made in the paper. Newsprint magnifications, come in the country of the control and hand made paper. Newsprint magnifications, some interests annually, is centred at Tolesa, in northern Spain, while tissue and eigned the standard order of the control of Annually, and enjoys a well-carried tension. The production of vellor amounts to approximately 1,500 reams per day. The production of vellor amounts to approximately 1,500 reams per day. The production of vellor amounts to approximately 1,500 reams per day. The product is expected to entral and South America. This paper is a control of the paper is the paper in the following decreased. The expectation of paper in the soil from 5,004 to the paper is the 1911-15 period to 13,678 to soil 1916. Pint a paging, a control of the paper in the soil of distance of the paper in the paper.

Tracklass, POTETTAN AND CREAMS INDISTRY.

dustries devoted to the manufacture of glass, percelaid, cartian, ware and some sentened throughout the whole of Spain, although the provinces having the set number of factories are Valencea with 532. Barcel on with 436, Seville 199. Madrid with 281, and Toledo with 284. The aded in this production are fine to the formal carthenware or torcelain, inclining class and ordinary earthenware, and decorative coramic articles, e.g., vases and statuettes, glass clated with quicks seem of the second statuettes, and tiles, polished and common to the order of statue and engraved, stained and decorative glass.

of these products are possible to Sprin; for example the fine decorative
 of Valencia, the earthenware of Talavera, and the polished tiles of Seville.

THE CHANCH INDUSTRIES.

It is 13 the total number of factories and laboratories in Sp.

Le manufacture of activities, was estimated at 2.761, the more impossible at the stress of product such as Barcelona, Gerona, Valencia, and Madrid. Among the leading manufacture to may be mentioned those devoted to pharmaceutical and nedlicinal products fill strumery (31), sulphuric acid (40), oil of turpentine (23), range and lemon N1. is 43), varnishes (25), colours (21), printing inks (34), and tar (23). Other is a produced are sulphur carbonate, white lead, alums, nitric acids, cream of tars, and tartaric acid, at monia, carbolic acid, carbonate of soda, vermilion, licorice (xyr. it is, ivery black, etc.)

The manufacture of essential oils is an important business at Malaga. Spain being the largest producer in the world of spike oil, rosemary, thyme, sage, and pennyroval. It, connection with the refining of slive oil, a stap industry has greaven up, turneing our both crude and tailet soaps. Toilet preparations are made on a fairly large seek.

Nitrates and nitric acid are manufactured at Lerida, and 30,000 tons of carried seda are turned out annually by the Solway process at Torrelaveja. Superplephates to the amount of 110,000 tons are manufactured annually in Valencia, and inemical fertilizer trade is very important, although toreign supplies are in decision.

A development is also taking place in the ink and varnish businesses, but S. is not yet in a position to take care of the local market. The aniline dye indus

still in its beginnings.

The total capitalization invested under this heading is hardly more than 100,000 pesetas, and in spite of evidence of development Spain normally imports the 125,000,000 pesetas of chemicals every year. The exports represent some 35,000, meetas.

THE SHIPBUILDING INDISTRY.

In the former times if occangoing wooden vessels, various parts of Spain a leveloped a gensiderable shipbuilding industry, especially along the litteral of Basine provinces. With the advent of iron and steel construction, however. Spair iron deposits unexploited, was easily outdistanced by the northern countries, at is only in recent years that the shipbuilding industry has been revivitied, altered even now the number of shippards which have sprung up along the Mediterraneau. Atlantic coasts have been mostly for wooden ships necessitated by the urgency of setting war losses. The war in tast gave an appreciable impetus to this native indexy, and at the end of 1917 the Spanish yards had orders for 100,000 gross tons, who was increased to 190,000 tons by the middle of 1918.

But Spain, given her national iron resources, the recent awakening to a sense her industrial possibility, and with many yards already established, may be extend to develop gradually this most important industry. Even now the Sociedad Espain le Construccion Naval, the largest Spanish shipbuilding concern, and one in whole Spanish Government is directly interested, has docks sufficiently large for the estruction of vessels up to 15,000 tons, and is at present engaged on a shipbuilding programme which calls for three steamships of 12,000 tons each. This company vards at Ferrol, Cartagena, Matagorda and Bilbao. English capital is also invested Spanish shipbuilding, the companies of Vickers and Whitworth both being interest Just recently it is reported that the well-known firm of Italian shipbuilders Ansaldo Company of Genoa—have decided to erect yards near Barcelona. The pasence of foreign capital in this industry will in all probability have a stimulating of Spanish enterprise.

OTHER INDUSTRIES.

Electrical.—In the province of Barcelona, various electrical goods are turned of e.g., transformers, dynamos, motors up to 200 horse-power, electro-technical apparate electric cables, electric lamps, carbons, and small electric material. Spain is still importer, however, of large amounts of electrical goods of all descriptions.

Furniture.-Modern furniture and copies of antique are reproduced in Madr

Barcelona, Valencia, Bilbao, and Vittoria.

Automobiles.—In 1914, but seven per cent of the motor-cars used in Spain we of Spanish manufacture. In 1918, however, the percentage of home-constructed on had increased to 30 per cent. The best-known Spanish car is the Hispano-Suiza, but by the company of that name, which has factories at Barcelona and in France. The firm has commenced the building of industrial chassis, 15 to 20 horse-power and 30 40 horse-power, and it is stated that already over 500 are in use throughout Span A 40 to 50 horse-power truck chassis of this company has been adopted as a standar model for the Spanish military authorities.

Gold and silver mesh purses.—The making of gold and silver mesh purses is distinctive Spanish industry, being centred in the Balearic Islands. The separate

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sh purses is a The separate have the individually welded and the decorative hand carving and sawing give them a very seristic and beautiful finish. One of the largest factories was visited at Palmo de W.

Another industry peculiar to Spain is the making of hemp-soled in the state of the

to under the heading of fisheries, there is a company in the north of Spain which cans to the heading of fisheries, there is a company in the north of Spain which cans to the ordinary tall tins. Condensed milk is also put up in Santander in the laize cans. Reference has already been made to the fruit and vegetable that it is distributed.

Fans.—The fan is in widespread use throughout Spain, and an important industry in Valencia exists for the production of ordinary and hand-painted fans. The best the state of the restaurant of the state of the stat

Steel and gold jewellery.—Another characteristic Spanish production is the making it will be ellery inset with gold and silver work. The best work is done by hand at Granada, Toledo, and Eibar, and the wide range of jewellery and fancy articles made the steel by sale not among the Spanish, but by the tourists visiting that country.

lircraft.—The Spanish aircraft industry is in an embryonic state at present, but the sed to construct machines for passenger transport, mail and commercial passenger. Already some motors and machines have been built, although the majority the clines have been imported from France. There exists, moreover, a concession for the strike service between Barcelona and Madrid for the carrying of urgent correspondent. But the concessionnaire company is still in course of organization. There is a strike that the concessionnaire company is still in course of organization. There is a strike that the spanish are the strike that the strike that

HYDRO-ELECTRIC INDUSTRY.

The source of Spain's industrial activity is believed to be more or less connected with the hydro-electric developments of the country. There are claimed to be at least some 3,000,000 horse-power available, and with the construction of dams in certain districts, this amount it is stated not have been increased to 5,000,000 horse-power. Up to the present it is stated that some 1,000,000 horse-power only are being utilized, the outlay of capital in this industry representing at present some 400,000,000 pesetas.

The chief districts characterized by their accessibility to this latent national wealth are Leon, Galicia, Asturias, Santander, the river Douro and its affluents, the rivers Tajo, Guadiana, Guadalquivir, the Jucar, the Calorial, and the river Ebro above Zaragoza and from this town to the sea.

PART IV.

The Spanish Markets.

AGRICULTURAL MACHINERY.

in considering the market for agricultural machinery in Spain, it is to be pointed that it is use up to the present is not generally adopted, and that any increasing anticipation entails primarily demonstrating and accommodation. In the first place the conservative spirit of the farmer tends to retain the old-fashioned method of ploughing, threshing and winnowing, as he usually fails to see why he should discard a known instrument or machine for the one unknown and unused by his ancestors. Oddly though it may seem, the writer saw throughout his travels in Spain, many ploughs at work of the old Egyptian and Moorish type—a mere piece of steel or iron with a wooden handle attached—while the method of threshing by the treading out

of an mode, of we have a method the wind, and of the nother the old Moderish reads wheels is not a muon throughout the penies la. The other of the moder mode is a view of the prevalency of old time portions, most therefore be lend of the

man if tion is meant the suiting of the achieves of fered to the paculia different parts of the country, and secondly tacilitating the terms of parts of mass that in mind that the Spanish farms are either not extensive to the state of the country in others alluvial, that Spain is a country to the left draught animal, and that certain characteristic farming methods of the centrugal to cat so that about 15 inches of stubble is left, which is us along volunters to the cat so that about 15 inches of stubble is left, which is us along volunters to the cat so that about 15 inches of stubble is left, which is us along volunters to the spanish mark when selling in Spain, and as illustrating this determination in example was positive to the call extent from the factory to study at test hand the particular needs of the Spanish farmers in ploughs. This work accomplished, he returned to Germana in the inferior article and it was not long till this German firm was doing to the inferior article.

If we the German to who recognized more than others the tracests of zero in the strength or old terms. He knew from his tirst and investigations that the Score and where or farmer was from not sufficiently strong financially to make payment the court in the great in Spect. the farmer's interest were to be in reds. Separating in Spect, the farmer's interest of the court in the exporting in Spect, the farmer's interest of the court in the exporting financially to make payment in the exporting financially to great the court in the exposition of the six months, and set to the court in the exposition machinery, a period of from the court in the court in the exposition of the bill would be met on delivery. The exposition of the first harvest, and one third at the end of the second have the court in the concessions. What may be termed then the advantage of a condition, whether an the machine itself or in the procedure of collecting as a start be over sixed in extending or opening up the sale of Canadian against machinery in Spain.

Over and above all this there is to overcome the preinders of the farmer, bollows, not unfrequently, that the employment of machinery will drive him to the fields and his livelihood. His natural aversion must be not by explaining where the obvious, viz., that the use of machinery means more land cultivated. In extensive harvest, a greater return to the landlord for in case of peasant emissible the farmer himself), and therefore better wages and better living conditions

Notwithstanding the foregoing general survey, agricultural machinery is favorably known and utilized successfully in many parts of the country, and it is general arread that there is a considerable field for agricultural machinery trade developm in Spain. In fact, that there is an increasing demand for it is evidenced by the set it too part of a few important Spanish companies, who have begun to manufacturable me, copying for the most part foreign models which have been especially found meet the needs of the country. (The chief difficulty, however, in strengthening to me production at present so ms to be the inability of the Spanish firms to turn suitable mallcable castings.) There is also the additional consideration to be taken in account by the Canadian exporter, that Spain, in solving her agrarian problem, where of necessity greater recourse to the use of agricultural machinery.

The Spanish market so far has not been monopolized by any one country, not machinery from Canada new to Spain, as her harrows, cultivators, reapers and bine especially have successfully competed with other foreign marks. Besides Canada companies, there are American French, Swiss, Belgian, English, Australian and Canan houses which have done, or are doing, business, the bulk of the trade normal going to the United States and Germany.

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THE POOL OIL

As is to be expected, the runst widely used agricultural machine is the plough and to types generally are in vogue:

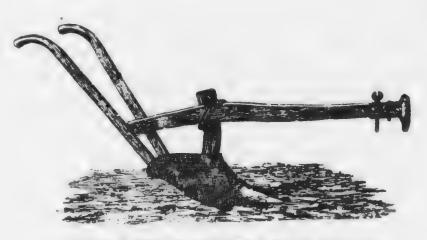
ir A light and cheap plough for the light and sandy soil of the central and a street provinces.

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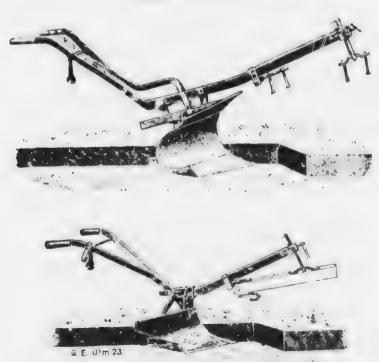
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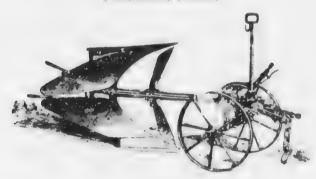
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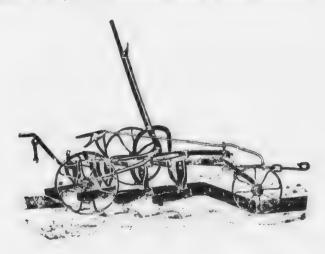
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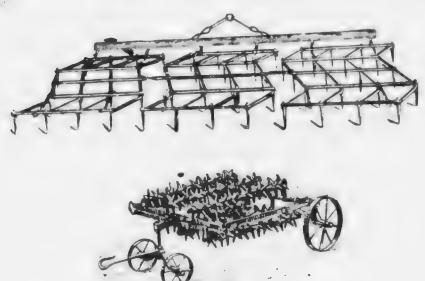
A complete, which estimates the school Species to Christian etchnology. Been proved, the Brahant. This machine, an illustration of which is sometimes, has connected in Spain in tive different school weighting 120, 140, 180, 240 and 500 of thems.

MUTION SHAD PLOFERS.

The heavier type of all-steel plungh, with two, three and nursiance, also meets with a simited sale in Spain, and is constructed for two, three or four horse traction. These ploughs weigh up to 173 kilogrammes and plough up to 80 continuetres in broadth at 120 continuetres in depth. A tour share model is shown hereunder.



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THER KINDS OF ACRECULTURAL MACHINERY.

Warner of Control States and Spain principally of United States and 1 Fell, and corn crusters also come from England, while a few are it is a tored a larger transferencia in dels. France does what trade there is an grain success, and Cormany at one time in manure distributors. These latter are now by the bole Spain. Torage cutting and grinding machinery are of American and and the state of the section of the 100 and in Catalogue or obtained from Fugland. Windmills were formerly imported to a vi. In the States, but are new being turned out at home, as also are winnowers. a solerable cumber being produced every year. Semi-diesel engines for agricul-* how the attention in Spain, those in use coming mostly from England and . . I'm 1 1 5

Up to the present there has been no protounced demand for tractors, although The war sever barrived from the United States. What is wanted chiefly in · . De sometime of substantial construction and one economical in its working. It is the remembered, however, that farming on a large scale is not common in was the price of gasolene is very high even in normal times, and that the roads to the number als or good in central and southern Spain. All of these facts serve as i hereads in the present time to any extensive trade in tractors. An oil-burning that will redefined preferable in some quarters.

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- Placing some distinctive mark on agricultural machinery might be done windyantage. For example, a picture of the rising sun, a buil, a horse, a being could be used to distinguish different types of machinery, and the machiner would form a topic of conversation among even the illiterate peasan. It was suggested that some such device would have a telling effect, and is the greater importance than the name of the manufacturing concern, then there is no objection to this, too, being added.
- 4. The word Canada should be prominently practical at a contraction of
- 5. Canadian manufacturers should concede something more in the way of payminalities. To grant attractive and yet safe terms should not now be a diculty with a Canadian bank established in Spain. Thirty days against rece of documents is not the way to win trade in the Spanish agricultu machinery market when the outlay on the part of the importer demands a large sum, and yet a case was brought to the writer's attention of a Canadi firm attempting only recently business on this basis. The buying merchans a matter of fact, in this case was perhaps the largest agricultural machine importer in Spain. To try to win any permanent trade in this way is to confailure.
- 6. The more thorough the study made on the spot by our manufacturers of types of machinery wanted and the trade customs prevailing, the more satisfing will be the results obtained.

PUMPs.

One of the largest hardware and machine tool houses in Spain which oper branches at Barcelone and Madrid, told the writer that in their 1918 catalogue the omitted the offering of any centrifugal or rotary pumps as the only ones then obtain

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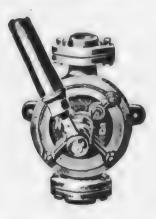
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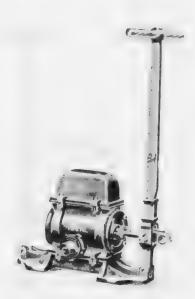
A service of pumps or ordinary demand one si was hereunder



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Litres per lear.	1111	1,690	1,000	1,500	1,500
Approximate weight, kg.	1+)	11 ~	12:5	15	14







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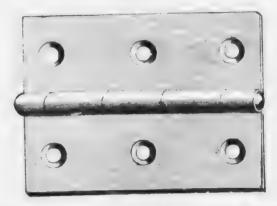
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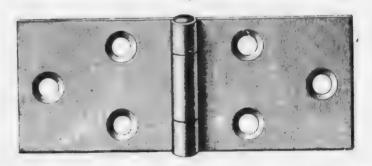
the color butts, Lances, Johnson ps. Saries, et al. espectation and color and the lasme's going contrate to term are cases in the confort has, and to be a Swed should American firms in the articles of retter open to. The the centred at Cord to and Gijon has grown and sederaley of this the way. the interest product turned out and principals the course to German, trade-These lines are not the plentatel at present and there should be a per-* Condition business to be done. The netting up of attractively labelled conditions as some state of the second time of the second time of the second time.

BUTTS.



Length: 1-in . . 1, inch, 15-inch, 13-inch, 2-inch, 24-inch, 24-inch, 24-inch, 24-inch, 24-inch, 25-inch, 25-in

BACK HIAPS.



Length of point: 1-inch, 12 meh, 11-inch, 12 inch, 11-inch, 12-inch, 12-inch, 12-inch, 12-inch, 2-inch, 2-inch

STRAP HINGES.



Length of each leaf: 3, 4, 5, 6, 7, 8, 9, 10, 12 inches.

LOCKS, CASTORS, FURNITURE, HARDWARE,

Germany did the bulk of the cheap lock trade, while the more expensive types manufactured at home. In padlocks the trade is normally divided between Germ I rance and the United States. The prevailing sizes are 35, 45 and 55 mm in wi The caster trade has been mostly American, with German, French and S, mish of petition. Furniture handles and key plates of showy design were sold principally termany at very low price. Italy has also recently sent small quantities of Germitations.

-PANNERS, VICES, DRILLS, PLIERS, PLANE IRONS.

Germany gradually won the trade in spanners over French competition. The sizes mostly in demand are 15, 18, 20, 22, 25, 28, 30, 32, 36, 42, 45 centimetres long. Double-ended spanners 14 by 16 mm., and 21 by 25 mm., and 18 by 20 mm., are also sold. It was Germany, moreover, which did the largest business in braces and in parallel vices, the following dimensions for the latter being indicative of those sold: 80, 100, 120, 140 and is width.

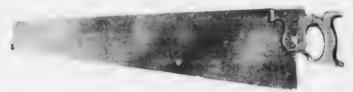
140 mm. in width.

In drills America has got in on the trade which prior to the war was practically terman. The United States drill is considered of excellent quality, but a little high in price. Five and to mm. drills are among those most widely sold. The caliper trade normally is German, 20 centimetre calipers being one of the commonest types sold. Pruning shears (s-inch) and shoeing pliers (33 cm.) are nearly all of French erigin, while Germany again in pre-war times had the trade in carpenters' pliers 22 cm.), combination pliers (18 cm.), and in forge nippers 5 inches and 6 inches. In plane irons (44 mm.) France virtually controls the market.

FILES AND SAWS.

The German file, on account of its inferior quality, gave place to British goods, of late this trade in a large measure has gone to the United States, as has also the business in saws. Sweden and France are also represented in the saw trade, and Germany also used to do business in hack-saws and pruning saws. It was stated that circular saws for veneer and iron and steel, planing saws, block saws, cross-cut saws, hand saws, back saws and lock saws, and band saws are all saleable. Given hereunder are some of the types found in the hardware stores of Spain:—

HAND SAW.



Lengths from 12 to 32 inches in grades of 2 inches.

BACK SAWS.



Length from 10 to 18 inches in grades of 2 inches.

CROSS-CUT SAWS.



Length 4, 4½, 5, 5½, 6, 6½ feet. 2485 4

l-inch, S-inch.

13-inch, 2-inch,

ensive types are ween Germany, mm. in width. d S. anish com I principally by ities of German



Lengths from the total Diegos in processor grants is

Block - IN.



Thickness 2004, 2005, 1087, 1003, 1011, 1/22 nm Widely 100, 110, 125, 105, 150, 160 mm.

THE CLITTEN TRAIN.

Again in the littlery trade the German's in particularly and the local transfer spanish business, one form above in Germany, it has stated, getting and for each of the total orders. In endeavouring to open up a trade in this lite, it is very releasely to enter to the Spanish taste. The Spaniard generally wants for table use a state which has a curved blade and a mickel plated handle, and when is about 5 meles which has a curved blade and a mickel plated handle, and when is about 5 meles which has a curved blade and a mickel plated handle, and when is about 5 meles which has a curved blade of a dessert knife is generally 1 inches a reagaly ground blade self-self among the better classes must be polished, although a reagaly ground blade self-self among the better classes must be polished, although a reagaly ground blade self-self among the better classes must be polished, although a reagaly ground blade self-self among the better classes must be polished, although a reagaly ground blade self-self among the better classes must be polished and a mickel plate of the self-self in the self-self among the better classes must be polished, although a reagal to the self-self in the self-self among the better classes must be polished.

Kitchen knives have either a metal or a wooden hand'e, and their or hes that from 4) inches to 6 inches in length. France, Germany and Sha'n de the greater part of the business, although American kitchen knives can be seen in a tag stores. The tinned forks and spoons add are either of Shanish, German or French mark.

Pen knives and pellet knives are generally imported from Germany and are of the usual poor quality type. Seissors are made locally and independ from France and Germany. The writer saw one kind of seissors of Spanish make, which, if allowed to fall on the floor, would instantly break, and but there has been a demand allowed to fall on the floor, would instantly break, and but there has been a demand for this worthless kind of product. Recently French seissors of superior are the large large large arrive.

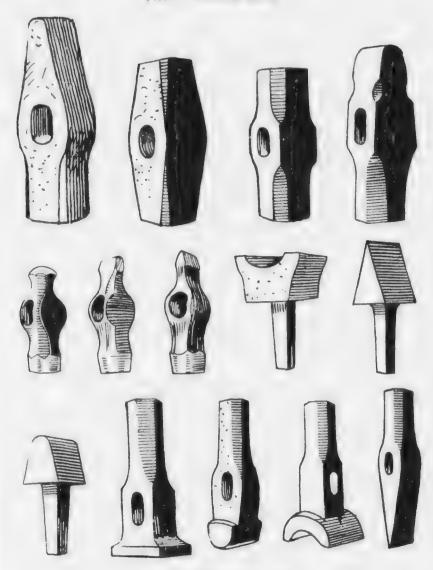
begin to arrive.

Notwith-tanding what is said in the foregoing paragraphs, there is a limited demand for the better grades of cutlery, and Fuglish goods can be obtained at the best shops.

HAMMERS AND SHOTTES.

To get any important share of the trade in hammers new principally of Spanish and German, angle, it is necessary to make the heads of additional and the properties of red in Script, some of which are seen hereunder. American shows are new competing with those manufactured locally, and are affered for various kinds of uses.

TYPES OF HAMMER HEADS.



NAILS, SCREWS, BOLTS, ETC.

N... Employed in Spain is controlled by an important trust, and it would seem difficult for Canadian manufacturers to compete successfully. Screws, however, are made by German firms to Spanish dimensions, an example which has since been after United States companies. Ordinary bolts, nuts and rivets can be obtained to the lith apparently entire satisfaction.

SUMMARY.

- ! ananing up the hardware situation, it is worth while pointing out:-
- If it this trade calls for both the very cheap and higher grade article, and that market exists for both kinds of products. It would seem, however, that Unnadian goods could only enter to this latter trade.

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ad are of a France which, if demand attention

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f Spanish

- 2. That the native production is of a fair quality, and because there is a strong demand for the inexpensive article, Spanish-made goods have been substituting the cheap German article.
- 3. That Germany will exert herself to win back her former position in this trade.
- 1. That the United States and France are the keenest foreign competitors at present.
- That packages should be attractively and accurately put up, and that the label should be in Spanish.
- c. That the personal visit first and the permanent representation afterwards, or else direct connections with the big wholesalers, seem necessary.
- 7. That advertising in Spanish is an appreciable asset.
- 3. That the trade must be seriously worked for.
- 9. That the usual German method of payments was ninety days, the discount depending upon the size of the order.

Provided Canadian manufacturers or exporters are prepared to cater to the Spanish hardware taste, even if it be only in the higher class articles, are willing to do business on the terms prevailing in the market and are ready personally to interest the Spaniard in what they have to sell, it is safe to predict that a substantial business can be eventually built up.

THE ENAMELLED WARE TRADE.

Austria had no monopoly of enamelled ware trade in Spain. Not only was German, French and Swiss competition appreciable, but two Spanish firms were also able to take care of some part of the home requirements, and since the war their business has considerably developed, even though the production is of an inferior quality. The consuming market, however, is stated to be relatively large, and a higher grade article, even if at a slightly elevated price, would undoubtedly, it was stated, find many buyers. From the inquiries made it would seem that Canadian firms would, and should, get a share of this trade.

The illustrations inserted show some of the more popular articles and types in

FOOT BATH TUBS.





Oval. 35-70 cm. in grade's of 5 cm., made with or without feet, and with fixed or ... vable handles.

Round, 30-60 cm., in grades of 5 cm.

SALCE LANS.



Sauce pans are sold generally in the following sizes:-

	10 cm. for 3/8 litre. 16 cm. " 1 " 22 cm. " 2 1/2 "	18 cm. 24 cm.	for 1/2 litre. " 1 1/2 " " 3 1/2 " " 7
92 one 44 4 1/2 H	28 cm. "6 "34 cm. "10 1/2 "	30 cm. 36 cm.	"12 1/2 "

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y was Gerre also able bir business tality. The rade article, any buyers nould, get a

nd types in

POTS AND KETTLES.



The enamelled pots shown above in the first two rows, are sold in the following sizes:—

	ß	em.	for	1/	2	11	tre.
1	(1	1 222	h .	1	1/	0	6.0
		0.100	8.0	2			4.0

Those in the third row range from 10 cm. to 32 cm.

SPANISH DI ST-PAN OR GARBAGE CAN.



The above illustration shows the peculiar type of dust-pan used generally in Spain, vi., h.s. really a cross between the Canadian dust-pan and garbage can. It is sold in vizes, 24 and 26 centimetres

DINNER PAILS.



The workmen have their dinners carried to them in receptacles as shown above. Out 29 may be of 2, 3, 4 or 5 compartments in sizes of 12, 14, 16 and 18 cm. Out 30 is sold in sizes of 10, 11, 12 and 14 cm.

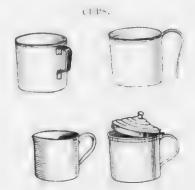
the following

TRADING IN SPAIN

CHOCOLATE. POLS.

The above illustration shows the distinctive type of ordinary chocolate pots so often met with in Spain. The sizes are as follows:—

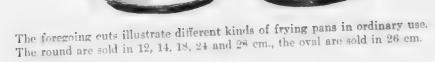
en met with in Spain. 11.	(4//(4///)	7 cm. for 1/2 litre
6 cm for ' 4 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	6 1 2 cm for 2 8 let 8 cm. " 1	1 cm to 1 1 4

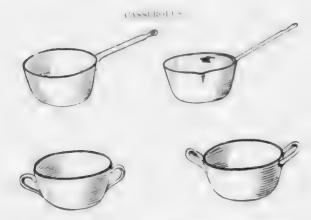


Various types of cups sold in Spain in the following dimensions: 6, 7, 8, 9, 10, 11, 12, 14 and 16 cm.

FRYING PANS.







The above shown casseroles are offered in the following sizes: -

8 cm. for 1/5 litre. 14 cm. " 1	10 cm. for 2 8 late 16 cm. " 1 1/2 " 22 cm. " 3 3/4 "	1. · ii for 5 8 htre 18 cm. ** 2 24 cm. ** 4 1/2 **
20 cm. " 2 3/4 "	25 Cm. 0 07	1

Another type of casscrole commonly seen is the one shown immediately hereunder, measuring 16, 18, 20, 22, 24, 26, 28, 30 and 32 cm.



OTHER ENAMELLED ARTICLES.

In addition to the foregoing there are many other commonly used enamelled articles such as,-

Soap cups, 10 and 12 cm., perforated and solid.

Washbasins, 12 to 50 cm., some of which are made with stop-hole in bottom.

Conical slop pails, 16 to 34 cm.

Cylindrical slop pails, 20 to 26 cm.

Bath-room pitchers, in sizes of 18, 20, 21 and 23 cm., holding 4, 5, 6 and 8 litres, respectively.

Commodes and bedpans.

Candlesticks, 11 cm.

Spitoons, high round 20 cm.; low round 20 cm.; rectangular 24 cm.

Cup strainers, 12, 14, 16, 18, and 20 cm.

Tea strainers, 9 cm.

Long spoon strainers, 7, 8, 9, 10, 11, 12, 13, and 14 cm.

Basin strainers, 18, 20, 22, 24, 26, 28, and 30 cm.

Graters, 18, 20, and 22 cm.

Steaming kettles, 14, 16, 18, and 20 cm.

Long kettles for cooking fish, 30, 35, 40, 45, and 50 cm.

Coffee pots for holding ½, ¾, 1. 1½, 2, 2½, and 3 litres.

Milk pitchers, with covers for \$\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, 1, 1\frac{1}{2}, \frac{2}{2}, \text{ and 3 litres.}

Milk cans, 8, 10, 12, 14, 16, 18, and 20 cm.

Bowls, 10, 11, 12, 13, and 14 cm.

Conical and spherical funnels, 8, 10, 12, 14, and 16 cm.

Soup dishes, 18, 20, 22, and 24 cm.

egetable dishes, 18, 30, 22, and 24 cm

7, 8, 9, 10,

2 little

ary use. 26 cm.

Processor, it is a second of the control of the second of

A spin, To no of other art a

Leapots, 19, 14, 16, and 18, an

Sugar how)s, 12 and 14 cm.

1, a. of a s, 14, 16, 18, 20, -2, a d 21 ,

Harrie light and gas rothing

Lateratery and protestable afters -

White is the predominating colour, although dark blue, red, green, pink, and not blue enamelied articles are seen, as are also the mottled coloured products, with the enamel used on the inside.

A complete range of Canadian samples should be shown to the trade by a home apprecentative if possible, who can speak Spanish. Business is to be had, but it will a not to the most charge tie and accompositing.

It is at interest to note that east-iron hollow-ware has hardly any sale in Spain, the left it areas I stave which is used allows only thin pots and pans. Fancy tare is imported at present mostly from France.

MARINE Trais.

The pre-war conditions of the mast to be I market have considerably changed, of the introduction of a new factor, viz., the Spanish, product itself. Unable to draw supplies, as formerly, from overseas markets, and with many orders to execute for the Allied armies, in which machine tools were absolutely necessary, the Spaniard legan to copy English and American models, and as a result mere have sprung up a score of soft companies which devote themselves to this work, turning out small planing machines, small milling and shaping machines, and various types of lathes. But the Spaniard may hardly be considered as a permanently strong competitor in these lines, for the reason that his production is of a very poor finish, his construction often not accurate, and the cost of manufacturing high.

Germany had made a strong bid for the machine tool trade of Spain and had -ucceeded by solicitation and perseverance in securing a large part of the trade that to time belonged to Great Britain. Not only was the German salesman more active, ut it was pointed out to the writer that the British machine was often too enduring. · heavy and too expensive. The phrase used by one large importing house was that "the English machine would never wear out," and valuable though this quality might seem, yet with the constant improvements taking place in machine tool manufacturing, the Spaniard often preferred to scrap the old and buy the most up-to-date model. It Is in this respect that the United States article has especially satisfied the Spanish market inasmuch as the latest improved designs have been offered, and at a lower price than the lenger-enduring though more antiquated British machine. In fact the American's have been very active of late in pushing their machine tools, with the result that the market at present is considered by some buyers to be overstocked. However, there is an evident determination to make Spain a greater industrial nation, and this achievement will entail more extended importations, and it is in this market of a larger demand that Canada's opportunity seems to lie. The Canadian machine tool with its excellent construction, its most recent improvements and its superior finish, would undoubtedly appeal if only an effort was made to get a part of this trade. The compatition to be met will be German, Fuglish, American, and in some lighter and cheaper lines. French, but provided Canadian manufacturers can quote comparative prices at least e.i.f. Spanish port and will stock Canadian machine tools, there would seem to be an pening for the Canadian product.

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STREET ALION OF MACHINE TOOLS

The following general specifications of some of the more important machine tools . . One given the writer by a large firm of importers at Lean

realt not more there

Millimetres	Height of Cen Millimetre				
1	1 *				
1	42.61				
4	1				
. 1 1					
1 20 1	_ +				
**	to the state of th				
$f_{ij} = 0$	350				

Vertical Drilling Ma | 100 x

For Drilling up to a Diameter of Millimetres.

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Distance of Column from Spindle. Millimetre

> 250 (i () 11 -0 -400

Radial Drilling Martines

I : Urilling up to a Diameter of. Millimetres. 60

From Column to Spindle Maximum Distance. Minimum Distance. Millimetres Millimetres. 1,000

Shaping Machines.—Tool movement, 300, 400 and 600 mm.

Planing Machines.—Planing length 4,000 mm., width 1,100 mm., length 1,100

Milling Machines .- Single of 20-inch, 25-inch, 28-inch, 30-inch, and 34-inch dia-... ter feed table.

It is to be expected that the development of the shipbuilding industry in Spain terred to in another section of this report, will call for the various kinds of machine and in vessel construction. Up till now the supplier of these tools has largely - en Great Britain.

TRANSMISSION MACHINERY.

About 75 per cent of the Spanish business done in the split pulley of pressed steel, es to American houses, despite the high prices asked for this product. Supplementing this importation is the native-made cast-iron and forged pulley, and the wood edley ranging from 150 to 2,000 mm, in diameter, and from 50 to 500 mm, in width,

There is also manufactured locally steel shafting up to 19 mm. as well as bearings plumbers' block, both of which have found ready buyers owing to the price of the inported American product. The complaint was also made that because of poor whing the goods often arrived from the United States twisted and oxidized. France, ewever, has been doing some business of late in the steel shafting trade. The diameter of the shafting in demand is 10, 12, 15, 18, 20, 22, 24, 25, 28, 30, 35, 40, 45, 50, 2, 60, 65, 70, 75, 80, 85, 90, 100, 110 mm., while its length should be about six metres.

Both leather belting and balata belting are produced in the country and a essful Canadian introduction would depend principally upon the laid down cost.ther belting is offered in widths varying from 20 to 600 mm. A special camel-. In belting made in England also has a limited sale in those establishments such as ager or colour factories where there is much steam and humidity. England norm-Ilv does a considerable business in balata belting.

PIPES AND TUBING.

One of the largest British importing houses in Barcelona informed the writer at a good opportunity existed in Spain for the extending of Canada's trade in ter and gas pipes, and it was further stated that some shipments had already come the note in 1913. Spins imported approximates all process of we agent from and storage agency of discovering a ded, and most choices of notes the principal contract of a contract of the important of the interest of the important of the importan

Great Britain at one time practically enjoyed a monopoly of the tracte in the dragers on W. 1 serewed and socketed black and galvanized tubing, but graduals 1 of the Germany, whose manufacturers always quoted in the metric system and a trace or pesetas. United States firms have also entered the market and move but the substantial business. Spanish competition, although it exists in subworld and butt-welded tubing up to about 3-meh diameter, need not be a discourage it; it is the foreign exporter, as the national capacity of production is sto--mall, and the article manufactured as a rule inferior in quality. The weldless stool tube trade has been almost altogether in the hands of the Germans, who have supplied a good quality article at a much lower price than that offered by other countries. There is a not unimportant demand for both the lap-welded and weldless tubing, .. I Canadian manufacturers would undoubtedly secure a much larger part of the lusions in delivery could be advantageously effected, and shipments sent directly from Canadian port, rather than via New York. In fact, the importing house prov. by referred to stated that although it had handled Canadian tubing, the name of the Canadian manufacturer was not made known by the New York merchant firm. which invoiced the order. Such methods are extremely unfortunate and highly d. advantageous to permanent Canadian export business.

With regard to cast-iron pipes for Spanish waterworks, the trade is carried on principally by those countries which have waterworks concessions or properties in Spain, viz., Great Britain, France and Belgium, the first named sending a morsolidly constructed pipe than the lighter Belgian and French manufacturer. Germany has not made any appreciable bid for this trade, but the United States during the war showed signs of activity, and has been doing its initial business.

Malleable, and not wrought iron, screwed fittings are asked for, the latter being

considered too heavy. Germany, the United States, Switzerland and Spain have the trade in this line.

STEAM AND WATER VALVES.

Steam and water valves of iron were imported from Germany to Spanish specitions, and are also manufactured locally. Bronze valves and fittings are made leadly, and imported from the United States. The following specifications illustrate the principal types being sold:—

IRON VALVES.

Passage		Distance from Flange to Flange
Millimetres.	Millimetres.	Millimetres
1.0	80	80
1.5	8.0	N.5
อ์ก	9.5	110
0.7	111	120
2.0	120	135
0.7	135	140
17. 20. 27. 20. 27.	140	150
15	145	160
5.1	155	167
60	175	2 11-3
70	157	232
Rn	200	248
9.0	215	275
100	239	293
110	245	320
120	260	340
10 -	S) *** ***	260
140	287	380
150	290	400
inn	300	429
175	320	450
200	350	500

BRONZE VALVES.

December to the transfer of the as the as-

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1 .	- A	70	- 1
20		Sq. 2.3	1
2 1	1	(+1)	3.4
3 7	14	1 ()	4
4.2	1 8		

Shall drawn copper takes up to 3 heb inside diameter are manufact—in Start, as are also sold drawn brass times—The demand, however, is considerably on ter then the native sapply.

WOOD-WORKING MACHINERY.

The trade in wood-working machinery was at one time done to a large extent by the trade in the United States are now active in this field. It is reported that has iness is continually offering, and some of the machinery in constant request this specified to be as follows:

Horizontal bandsaws with villeys and frame—diameters of 700, 800, 900, 1,000 and 1,100 millimetres.

Planing machines-1,600 by 350 and 1,600 by 400 millimetres.

Moulding machines—800 by 720 millimetres; shafting, 40 and 50 millimetres diameter, with tools.

Horizontal mortising machines, with arrangement for squaring and for holes up to 30 millimetres.

Brazing apparatus up to 50, 60, 80 millimetres width.

Apparatus for filing bandsaws up to 50, 60, 80 millimetres breadth.

Circular-saw machines with attachments.

ENGINES.

The writer was informed that opportunities existed for the introduction of Canadian gas-engines, provided prices and terms were made competitive. This field sas intensively exploited by the Germans, especially in the larger make of engine, but English, Italian, Swiss, Belgian and Swedish engines can also be noted throughout various parts of Spain. The German engine was as a rule cheaper than the English product, generally not so heavy, and finished off in an attractive style, while the Germans were also prepared to manufacture the engine according to the standards desired by the Spanish buyer, and to concede favourable sale terms.

The use of gas-engines in connection with irrigation and those activities where pumping machinery is employed will, it was a ted, continue in all probability to be popular, especially in those parts where electrical development has not commenced, or is unlikely to take place. One serious drawback, however, to the wider application of the gas-engine is the high price of refined oils in Spain.

The writer also received inquiries for auxiliary engines to be used on trawlers, small cargo boats and wooden fishing craft. These are manufactured on a small scale boally, but the demand would seem to be greater than the present supply.

TURBINES.

About nine-tenths of the Spanish trade in Sec. n turbines has been handled by German and Swiss houses. The English steam turbine is also favourably known in Spain Canadian success in this line would largely depend upon price and representation. The water turbines existing in Spain at present are mostly of Swiss origin.

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ROTTING STOCK AND RAILWAY MATERIAL.

Germany had succeeded during pre-war days in so manipulating the Spanish in the market that practically the bulk of the orders, especially in connection with the nost important railways, came her way, and this she did in spite of Belgian. From h that English competition. In the first place Germany was always willing to construct the orgine to the detailed specifications and fikings of the Spanish company, and in ti. - nd place her prices were lower in Spain than those of her competitors, even if Ligner at home and in less competitive markets for a similar engine. The German tepresentatives for getting this business were technical mon, speaking the native Large of French-as the French are financially and directly interested in the big to he and who being able, in addition, to show drawn specifications and findings contests, ingratiated themselves and pocketed the order. On the secondary I to the stary is true, about an English, Belgian and French locomotives are not process, even if they bear older dates. The tendency also here was toward the eliminating of other competitors. With the outbreak of war, the German business was of the suspended, and the United States began to bid with success, in a less keet, by 1.70% I market, and already American locomotives are seen running on the main

10. Les motive supplied to the Spanish railways by Germany, and the type predominating in Spain, is the steam superheater (Schmit system). The steam pipes to suarily of iron and made locally. The most common form of brake is the vacuum.

Native Spanish timber is used to a large extent in the manufacture of railway w. con bodies, which with the frames are constructed locally to no small extent. To supplement the home production, German, French and Belgian cars were also sent:

1. particularly those made in Germany and Belgium, and since the war the United States has obtained several important orders.

The well-known metallurgical firm, the Altos Hornos of Viscaya, which belongs in International Steel Rail Syndicate, not only take care of the major rail requirements is of the Spanish roads, but in normal times exported rails to Central and South Anatonic descriptions. The type of rail used on the newer lines of the broad 2012e railroads is 40 to 45 kilogrammes per metre, and on the older lines 30 to 35 kilogrammes. The fact that the very large rails of about 30 and 20 to 22 kilogrammes on the new and old lines respectively. The import trade in rails is centred in the lighter product for the mines, but these also are largely supplied at home.

from Germany and Belgium principally came tires, wheels, axles, and springs, with suppments latterly from the United States. Wheel centres for locomotives were generally imported from Germany, and connecting rods are also most often of foreign origin. Other railway material which Spain finds necessary to purchase about are buffers, cylinders, copper fire-boxes and general steel accessories, as the home supply is ones; ped by the demand. Fish plates, tie-rods, sole plates and dog-spikes are generally manufactured locally.

With regard to electrical tramways, these are practically in the hands of the Belgians who operate the services in the principal Spanish centres, except at Seville, where the firm is German, and in Valencia, Vigo, Valladolid and Coruna, where Spanish central is control. Electric tramways are either made in the country or imported transfer to the foreign companies operating the different lines. Some few American cars have also been imported. The rails for the electric service, as well as the wheels and axles, are either manufactured in Spain or the electric service, as Germany.

In view of the fact that much of the present rolling stock in Spain is dilapidated, and a view of many schemes now on the tapis for improving the present railway systems and for the development of new lines, it seems worth while for Canadian plants to keep themselves posted with possible and probable openings in Spain. Representation the spat could be recommended previded proper shipping facilities would allow Canadian competition. The many projects for the electrification of railway lines should also be carefully watched.

THE IRON AND STEEL TRADES.

In outlining the Spanish industries, reference was made to the important iron and teel trade which has developed in Spain. Not only is pig iron produced, but ingots, docume, billets, iron and steel castings, engineering castings, angles, bars, rods, shapes and sections; and in consideration of the inherent strength of the native industry, its area stibility to iron ore deposits, and the favourable quality of products turned out, therefore the there is any scope at present for Canadian export trade in these lines. In special tool steel, however, the Canadian product might advantageously be made more widely known, especially as Canadian trade marks are competing with Sheffield steel in other foreign countries.

STRUCTURAL STEEL AND SHEETS.

Structural steel for bridges, etc., is fabricated in Spain, although it may happen that the projected railway and other engineering developments, if and when realized, will not be adequately met from native sources. The home production of thin sheet iron and galvanized sheet iron is virtually sufficient for domestic requirements. Tinned tates on the other hand are at present greatly in demand, although formerly about vo-thirds of the Spanish need was met by native industry.

WIRE PRODUCTS.

Commercial iron rods for wire drawing were before the war, mostly of Belgian rigin, but sich hostilities the native product has been utilized. There are about ten apportant firms in Spain drawing wire, even manufacturing nails, three making one netting and cloth, five turning out barbed wire, and two producing spring wire. In the steel wire for spring manufacture has been imported from the United States and Germany, and is not made locally to any extent. German and English plants supplied Spain with her card wire, and orders have also been placed in the United States. The tire rope used so extensively in the mines and for other purposes, has been imported smost exclusively, the countries of origin being Great Britain, Germany, France, Bellium and the United States, Germany and Belgium specializing in a flat wire rope or winding. In endeavouring to capture any wire trade which might be offering, it of vital importance that quotations be given, as by the Germans, according to the etric system.

MINING MACHINERY AND SUPPLIES,

In view of the importance of the mining industry in Spain, and its continual requirements, it seems reasonable to predict that given direct shipping connections and determined and intelligent endeavour on the part of Canadian firms engaged in nanufacturiv mining machinery or mining supplies, there should be a Canadian portunity, pecially as a very large portion of the material has to be imported. In a national machiner in Spanish mining, and the conscious or unconscious British sentiment for British goods should to some extent tell in Canada's favour. Air impressors and rock-drills are largely imported from the United States, which has arrived on an extensive advertising campaign in mining supplies.

Excavating machinery is supplied by both Great Britain and the United States, formany normally had a good lead in crushing machinery, in portable railway material, hile in mine wagons a French firm did the leading business, Great Britain also cometing. Steam and electric winders were supplied almost exclusively by English ouses.

The development of the coal-mining industry in Spain has demanded, and will it stated continue to call for, all kinds of coal-mining accessories.

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PIN-CANNING MACHINERY.

The writer was informed that some Canadian trade might be had in canning machinery owing to the growing importance of the Spanish tinned goods industry. The various machines required are often copied locally from English and French models, so that laid down cost and modern improvements would probably be the determining factors in any Canadian introduction.

CODFISH IN SPAIN.

Though an imported product, codfish may be looked upon as one of the national dishes of Spain. It is eaten in all parts of the country by peasants and well-to-do classes alike, although naturally its consumption is greater among the former. In the province of Alicante, the Newfoundland cod, when not too thin, is often cut into small

pieces resembling caramel drops, and eaten raw.

It is important to keep in mind that the different localities of Spain have a distinct preference for different types of codfish. For example in the Catalan provinces, of which Barcelona is representative, the Norway cod, so cured as to present a white appearance, and showing considerable salt on its surface, is preferred. On the other hand in Bilbao, which is characteristic of northern Spain, the lecland and Scotch cured cod, i.e. a cod showing less salt on its surface but presenting a white appearance, finds tayour, while in southern and southeast Spain the Newfoundland cured cod of rather vellow appearance has found up till now the largest market.

The codfish imported into Spain is classified according to size as follows-

(a) "tomcods" from 7 inches to 12 inches,

(b) "small" from 12 inches to 16 inches,(c) "large small" from 17 inches to 20 inches,

(d) "medium" from 20 inches to 23 inches,

(e) "large" from 23 inches upwards;

but any shipment should include not less than 20 per cent under 14 inches. Naturally the largest fish are most popular, especially in the Valencia district, although "medium," "large small" and "small" grades, as in Alicante, command a pool sale. A medium-sized cod weighs approximately 1 kilogramme.

According to quality and appearance, codfish are classified in Spain as Superior,

Prime and Ordinary.

The writer was informed that Spain wants a codfish neither too thick nor too thin. In some parts of the peninsula, as at Bilbao, a relatively thin fish, resembling the Scotch ling, which when cooked becomes dilated because of the presence of gelatine, is popular, but on the other hand at Vaiencia a thick fish finds a readier sale. Generally speaking, however, cod of fairly good thickness is preferred throughout Spain.

In addition to the foregoing, it should be borne in mind that Spain wants well split cod, i.e split down to the crown. Moreover, a clean nope is essential, especially for the Barcelona district, and the fish must present a clean appearance. A criticism made of Canadian cod by perhaps the largest codfish house in Spain, was that the Canadian fish often showed a dirty appearance on arrival, and looked as if it had been artificially dried. Much importance was also attached to the necessity of carefully grading the fish on the other side. Frequently the consignee had to cull the fish on arrival, whereas this work more properly belonged to the shipper.

Cod arrives in Spain during the September to May season, and generally comes forward loose or in casks of about four quintals, or packed in jute bales of 50 kilogrammes. If in this last way, the fish are securely fastened to each other, and the fish bundle so made as just to fit the bale. By this method the cod does not become broken

or twisted, and the original straight appearance is preserved.

When the fish arrives at a distributing centre such as Alicante, it is shipped out in bales of one quintal to the various consuming centres with a seal attached to each rade.

Newfoundland has captured a very important share of the codfish trade of Spain, and during the last two years it was stated that about 50 per cent of the total importations came from that source. With the return of more normal conditions in shipping, wever, it is expected that the Scandinavian, Scotch and Icelandic fish will render the impetition in the Spanish market much keener.

Canada has exported relatively small quantities of cod to Spain, which according ... Canadian Government trade returns were as follows: 1912, 816 cwt.; 1913, 2,545 ... 1914, 468 cwt.; 1915, nil; 1916, 736 cwt.; 1917, nil; and 1918, nil.

In view of the steady and large consumption of codfish in Spain, however, an it is should be made to increase Canadian exports. In 1913 the total quantity of dish imported into Spain amounted to 54,749 tons, valued at 41,609,555 pesetas.

MARKETING SYSTEM.

The preferable way of marketing codfish in Spain was stated by a very large aporting house to be the making of shipments on consignment basis without a stiputed price, and as the cod was sold at the market prices prevailing, to remit payment. Of course such a system involves absolute confidence on the part of the shipper in the unique, but provided such is had, the system was stated to be the best. Otherwise and often happened that if the cod was bought at such and such a price in the untry of origin and sold prior to arrival in the Spanish market at such and such a time, according to the basis of purchase, and if in the meanwhile (i.e., between the nice of purchase and the time of arrival) prices fell, the Spanish buyer not infreshally found some way of protesting against the purchase and claiming, e.g., that the two re in a damaged condition, and refusing on this alleged ground to take up the supment. If on the other hand the parcels were sold at the market prices on arrival, r as the market warranted their sale, no such occasion of protest could take place.

A well-organized agency acting in those centres from which it is proposed to stribute the fish, seems almost indispensable for any successful Canadian business. The writer's preliminary investigations would seem to indicate that Bilbao, Barcelona, Vicante, or Malaga are the most favourable ports for distribution.

THE LUMBER MARKET.

Even in pre-war years Spain was unable to adequately care for her lumber requirent. and importation was necessitated. The principal kinds of wood imported were
teh-pine, red pine, white pine, birch, ash, poplar, white oak, beech, walnut, and
hogany, and the leading supplying countries included Scandinavia, Russia, Austria.
Ingary and the United States. Owing to the appreciable shipping difficulties conted with the importing of foreign woods during the war, outside supplies were curded and increasing quantities of peninsular timber has had to be cut. The return
more normal conditions, however, in transportation facilities is destined to see conderable sales effected of foreign lumber, and several of the most important lumber
uses interviewed stated their willingness and desire to deal directly with Canada.

Lumber has not been so extensively used in house construction in Spain as in 'anada, due to the fact that the buildings are always constructed of brick, stone or ement, and often with tiled floors and cement roofs. In a great many Spanish houses the older type, not only floors but baseboards and wainscottings are of artistic tiling, and even the doors and window frames are sometimes of metal. The lumber required, crefore, has been chiefly beams and wood for the larger purposes, although in the ewer constructions wood is being more extensively used for finishings. There is at resent a great searcity of apartments—the mass of the people are so housed in the g cities such as Madrid and Barcelona—and the need for new houses is imperative.

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v comes 50 kilothe fish broken Not only is there the building requirements of the different municipalities to be cared for, but Spain has quite an important furniture industry and suitable woods are in demand. There is also to be taken into consideration that many other of Spain's industries call for lumber, e.g., her rolling stock plants, shipbuilding yards, projected railways, her mining upkeep and developments, her oil, wine, orange and fruit trades, her musical instrument industry, and the contemplated manufacture of aeroplanes for postal and commercial aviation

Pitch-pine has been imported in considerable quantities from the United States, principally from Florida, coming both in direct sailing ships and in steamers; and in fact it was stated to the writer that pitch-pine was the most serious competitor of Scandinavian woods. Red pine used to arrive principally from Baltic ports and Sweden. Beech wood was imported from Hungary, ash from Russia, and mahogany, walnut and other fancy woods from Cuba. Mexico and the United States. Oregon and Californian woods, especially Oregon pine, are also well liked in Spant for their quality and large size. Canadian sprace is known favourably to a limited extent, sel some importers were med who had received or assemal shipments from Eastern Canada.

Dimensions of Spruce.

The dimensions of springs deals required for the Spanish market were stated to be generally as a llows; 24 by 8, 21 by 9, 24 by 11, 3 by 6, 3 by 7, 3 by 8, 4 by 5, 3 by 11 inches. Their length should average 20 feet, although the sizes range from 15 to 25 teet, and the larger lengths are preferred.

Dimensions of del Pine.

Logs of pitchepine are imported as follows: 5 by 8, 8 by 8, 6 by 9, 8 by 9, 9 by 10, 10 by 10, 10 by 11, 10 by 12, 6 by 12, 8 by 12, 11 by 12, 12 by 12, 12 by 13, 12 by 14 inches. Lengths up to and even over 3 metres.

Boards of pitch-pine for the Spanish market have usually the following dimensions: 1 by 6, 1 by 9, 14 by 1, 2 by 9; also 1 by 3 and 1 by 4 inches. Deals 3 by 9, 3 by 12, 3 by 13, 3 by 14 inches. Battens 1; by 4, 1 by 4 inches. Other sizes 3; by 10, 4; by 10, 4; by 12 inches.

Red and White Pine.

Red pine comes in sizes of 1 by 4, 2) by 6, 2) by 7, 3 by 8, 3 by 9, 2) by 53, 2) by 6, 2) by 7, 2) by 7\frac{1}{2}, 2' by 8, 1\frac{1}{2} by 4, 1\frac{1}{2} by 4\frac{1}{2}, 1\frac{3}{2} by 5, 1\frac{1}{2} by 6, 1\frac{1}

White pine comes in sizes of 3 by 7, 3 by 9, 3 by 10, 3; by 10, 4; by 10, 4; by 12 inches.

The lengths of heards vary from 6 to 28 feet, the most popular lengths being aptr ximately 12 and 14 feet.

Berch.

Beech is imported in sizes of 4 by 4 inches.

Quantities of Lumber In, rted.

The amount of lamber imported into Spain as logs, posts and boards, in 1913 reached 57.597 tens.

Box Shooks.

Box shooks required for the shipping of raisins, almonds and other fruits and vegetables, are made at present almost exclusively from native pine, although Portugal, Norway and Sweder, have also been sources of supply, and Canadian trade would depend largely upon the c.r.f., rices quoted by our lumber houses. The general practice has

icen for the fruit shippers in the spring to buy the pine by the thousand lengths of 2.3 and 4 varas (a vara = 2.8 feet), 2) inches thick, and 6 to 7 or 11 to 12 inches wide, and have the shooks worked up, in the northern or southern saw-mills. The boxes to not devetail, but are maded together.

Specifications.

The specifications for the raisin, almond, lemon and orange boxes are given here-under:

Box of 10 kg. raisins in layers, nett weight

Ends: 240 by 140 by 13 mm. Sides: 510 by 140 by 10 mm.

Lids: 510 by 260 by 6 mm.

Box for 10 kg. raisins in laners, gross weight -

Ends: 235 by 115 by 17 mm. Sides: 500 by 115 by 13 mm. Lids: 500 by 262 by 7 mm.

ox for 5 kg. raisins in lauers, nett weight-

Ends: 240 by 70 by 13 mm. Sides: 500 by 70 by 10 mm. Lids: 500 by 260 by 6 mm.

Box for 5 kg. raisons in layers, gross weight --

Ends: 215 by 60 by 12 mm. Sides: 490 by 60 by 8 mm. Lids: 490 by 230 by 6 mm.

Box for 10 kg. loose raisins, nett weight -

Ends: 240 by 100 by 17 mm. Sides: 480 by 100 by 12 mm. Lids: 480 by 265 by 8 mm.

Box for 28 pounds almonds (shelled) -

Ends: 255 by 140 by 15 mm. Sides: 580 by 140 by 12 mm. Lids: 580 by 280 by 10 mm.

Quarter case for lemons or oranges-

Ends: 340 by 230 by 20 mm. Sides: 730 by 230 by 15 mm. Bottom: 730 by 260 by 12 mm. Lid: 760 by 260 by 10 mm.

Partitions: bottom 340 by 230 to top of curve by 235 top by 20 mm. thickness.

Half case for lemons or oranges-

Ends: 390 by 255 by 20 mm. Sides: 980 by 255 by 15 mm. Bottom: 980 by 420 by 12 mm. Lid: 1,020 by 420 by 10 mm.

Partition: bottom 300 by 255 to top of curve by top 260 by 20 mm, thickness,

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Snoots for Packing Bandads, etc., in the Canary Is ands,

The shooks for packing Canary Island banancis, tomators and jotatics, are also in dem nd, supplies now coming forward from Christiania. The more important specifications are given bereinder:

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5 20 by 2 by 1 inches.	1		-01	11/	- On-	117	, and es,
Donk's longing crates .	4		.3.3	4		1	n t
4 pieces 16 to 19 by 3 by z inches. 6 " 14 by 3 by z inches.	16						3 by inches.
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30-inch singe banana crates							
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12 " 32 by 2) by a inches.					~		
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12 " 33 by 23 by z inches.							
inch sing! (anama crabs) s pieces 10 to 16 by 3 by 2 inches.	4,	2 1110000	. 1	l by	.,	1 113	1 inches.
12 " 36 by 2½ by § inches.	-	· friend		,	-		1 111 111

Tom the hor .-

Tops and bottoms, 16 by 10 by 15 inches in two pieces.

Sides 16 by 7 by 1 inches in one piece.

Ends 93.1. in inches in one piece. Lath 23 by 1 by 7, inches in an a piece

Laths 41 by 11 by 35 inches in one piece

Potato boxes -

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Tops and bottoms 29 by $16\frac{1}{2}$ by $\frac{3}{4}$ inches in three pieces. Sides 29 by 7 by $\frac{7}{6}$ inches in three pieces. Ends $15\frac{5}{2}$ by 7 by $\frac{5}{4}$ inches in one piece.

It is estimated that the total importation of shooks for packing Canary Islands bananas, tomatoes and potatoes in 1913 amounted to about 10,000,000 boxes and crates. The trade was, as it still is, supplied almost entirely from Gothenburg and Christiania, and sales to importers are on the basis of the Petrograd standard of 165 cubic feet, while the sales in the islands to retailers are made per 1,000 complete crates, and in the case of tomato packing cases 1,000 laths for joining up four boxes into one parcel are also included.

In getting in on the Spanish box shook trade, the question of laid down cost is most important coupled with the necessity, once orders are received, of making the shooks uniformly regular and absolutely accurate. Normally most of this trade is lone with the principal importers direct on a credit basis, and credits usually range from 90 to 120 days from the sighting of drafts. Very few operations, notwithstanding present practices, are done normally on a cash basis.

BARREL STAVES.

Oak staves, in connection with tight cooperage for wine and olive-oil retainers, constitute an important part of Spain's lumber requirements. In 1913 imports into Spain of tight barrel staves and heading amounted to 73,438 tons, of which 72 per cent came from the United States and 20 per cent from Italy. Portugal was the other contributing country. Not only oak but chestnut staves are used. — difficulties connected with purchasing have lead Spanish houses engaged in thi.— ide to establish their own agencies in America, where the goods can be inspected and the shipments supervised before export takes place.

OTHER LUMBER USES.

Spanish telegraph and mining props are generally made of native pine, and railway sleepers, so far as possible, of native oak. In fact Spain was an exporter of both props and railway ties to France during the war. Some lumber for mining requirements has, however, been imported from Sweden, while in 1913 there were 19.351 tons of sleepers imported. The quantity of wood-block paving employed in Spain is negligible.

CONCLUSION.

For the extension and the retaining of Canadian lumber trade in Spain, a regular transportation of some system is absolutely necessary. Apart from this, it seems impossible to compete with Scandinavian prices and to assure the regular cargoes which are essential, once an entrée is established, for holding the trade. A steamship service does not necessarily per se suggest itself, however, as being the only method, or always the most advantageous, as sailing vessels equipped to carry assorted sizes of lumber of say 500,000 feet a time would probably equally as well suit the Spanish market, although a steamship service is undoubtedly a prerequisite of trade extension in most lines.

But even a transportation system is not sufficient. Except spruce, Canadian woods, as Canadian, are not known in Spain, and before any substantial trade is done a campaign of popularizing and demonstration by means of samples, test charts, and personal visitation would seem to be essential. The concensus of opinion among the lumber importers interviewed was that Spain would continue to need, even in increas-

ing the first the process repries left this trade is not to would be observed but by an interest of the to meet competition in regard to decorate process taulities of pays to the decorate interest.

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Stand therefore to Is a csell to day control to I alth the necessity of purchasing outside the ray uniterial the large poor ladistry, except the mechanical pulp made beauty, with the result that there is incines to be done in bleached, easy bleaching subdite, and chemical pulps. How much of the trade Canada could obtain depends large's or on the freight rates which our manufacturers and exporters are able to score. There is notations from Secondaryia put our prices on a non-competitive basis, but with the lattering of happing conditions Canadian pulp in this respect should a dide to compete. The manufact of the Papelera Espanola, the syndicated company controlling over twenty ive of the most intertant paper mills, told the valter that his firm would welcome supplies when and if we could quote prices competitive with Swedish shippers. Without direct steamship facilities we are here again to den a great disadvantage.

A complaint made about American wood pulp arriving in Spain was its coarseness, the Spanish market wanting a somewhat timer grade if possible than what the United States has been sending. The wood pulp is imported generally in sheets, and importers insist or a relatedly high degree of tryness, even up to 90 per cent.

MARKET FOR PAPER.

Reference was made to the manufacture of paper in Spain in another section of this report, and it was therein intimated that this industry was in a strong condition. It will be understood, with the development that has taken place, that the market cannot be considered as a widening one for foreign shippers, but rather to the con-

trary. Yet the Spanish products are not in a position to hardle at Jusively the lassings offering, and the writer was fit fund that, especially in certain classes of high trade papers, e.g., coated papers, and it tionery and wranging and wall papers. Canalian manufacturers magnitudables to inselves, as the first veccompetition is not have pronounced in the encaper lines.

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FILE TRICAL Goods.

Perhaps in no line had termany such a strong hold on the Spanish market as in electrical material and recessories. Her dynams, motors, transformers, trainway mipment, electric fittings, etc., were found wherever their use was needed. Now, over, there is a changed condition, and both American and English goods are well placed on the market. In the electrical cable business the Italians have established a factory at Barcelona and are doing a very extensive trade in Spain. Telephone apparatus is also supplied to a large extent from Sweden, though American competition is making itself felt. Electric lamps (gas-filled) of a low voltage and consuming about 25 watts are obtained to some small extent from Holland, but Spain herself has a very large manufacturing capacity in this line and the industry is highly protected.

In the electrical accessory line it is imperative that Spain is given what she wants. She manufactures a considerable quantity of electrical accessories and though cheap, light in weight, and often flashy in appearance, yet such are the types popularized. Germany used to send her this kind of material, and Japan has more recently made her appearance with similar samples. Again Spain, for example, does not want tumbler witches, and consequently they are rarely seen in Spain. Lampholders are produced in the country, retail very cheaply, and are found generally satisfactory. Edison screw caps are used almost exclusively.

The cable made locally holds its own in price competition with the imported quality. In Spain not so much attention is paid to insulation, and in fact about 90 per cent of the installation in connection with house wiring is done, it is stated, with low grade flex on the insulators. Meters, the writer understands, are not produced in Spain, and as the customs duty is levied on weight, the lightest foreign product offered

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n of tion rket conwill tend to have the advantage, provided the mark has been approved by the authorities. Measure a mistro-cents are made in the country to a majextent, onto animaters and voltmeters being titled in cases of brass spinnings.

Hervy electric material suct as moters, dynamos and transformers are for the nest part imported, the first production being, at ever a superficilles minimizing greatly interior. The suggestion was made to the writer that in entering to large electrical plants only the more considered parts of the machinery should be offered, as the heavy framework could be left to the local foundries and a considerable saving thus effector in the payment of dat.

There is further reported to be a g-od opportunity for the introduction of metercontrol gear. In this connection it should be pointed out that there is very little direct current used in Spain outside of Bureclena and Madral

With regard to electrical household appliances, etc., the Americans have, without cost, in, the preponder troc of the present trade. One very large electrical who esale and retail store in Barcelona is deady an important business in electric nors, too ters, eaters, for so domestic motors, etc., all of which are supplied by the States, and the transfer of timated to the writer that, as this would undomined view a developing trade, be would welcome Canadian offers on a competitive basis.

In considering any coefficial trade with Spain, it is of value to remainder that voltages generally range from 100 to 150

Spain believes strongly in her electrical future, princip." I because of her wealth of white coul, and because there are throughout different outs of the country coul mines where the coal is of too lost a grade to be exploited commercially as coal, but which could be used to produce energy do pay by long curried at the mine shaff, and which would help to supplement the hydrocelectric power during the drought seasons. There are many comprehensive peop sals accorded in Spain to-day, the most important of which is the Dax Algeeiras electric railway ofrom the French frostier to the southern coast of Spain opposite Gibraltans, which it is proposed to connect up with Paris and thus constitute, when finished, a through direct route from London to Paris, Paris to Madrid, Madrid to Gibraltar, and Gibraltar to Morocco. The bill sanctioning such a line has already been approved by the Spanish Scenate, and it is reported that Let' the Fig. sh and Track Governments are in sympathy, it not the actual prot. g mists of the scheme. This proposed railway is to be of international gauge, will be operated by electric traction, and will proceed about the shortest route or probably from Dax to Pamp'oner, Soria, Madrid, Carenea, Algeriras, accomplishing the course, it is boad, from the French frontier to the southern border of Spain in ten hours.

Another big electrical project new before the Government is the construction of a rational system for distributing electric current. The system as conceived by the Permanent Spanish Electric Comprission, consists of a series of transmission lines running through or year all of the important consuming centres both or the nearliern and someoness with radial lines in the middle of the country at Madrid.

It is believed that such a rundertaking, besides supplying enemp peacer to all users of electricity, would at the same time, llow the unification of the frequency and voltage, the fermer of which is now standardized throughout Spain at 3 phase, 50 evokes, whereas the letter would be adjusted after a detailed tody of industrial requirements. For the main branches of the transmission line, the commission referred to the very numeral that the potential be at less throughout the system are new being drawn up by a board of experts appointed by Government approval.

A third important electric enterprise, whose concession is now being awaited, is the utilization of the hydroclectric power of the rivers Elsa and Duero, in the vicinity of whose confluence it is expected to obtain some 350,000 horse-power. This district is now being surveyed by a Spanish group acting on the authorization of the Government.

In the footth place, the electrifying of sections of the Spanish railways is under consideration. The first project for utilizing electric-power in this connection is that

colating to the northern line between Leon and Oviedo, where the highest railway littude is reached.

In view of the electrical progress which Spain will undoubtedly achieve, even the 12h such large projects as the ones just outlined may be of distant realization, it sudvisable that Canadian manufacturers keep in the know and anticipate the electrical requirements of Spain

THE CHEMICAL MARKELL

The following table will indicate the principal chemical imports of Spain in 1913.

		Terres
1	Nitrate of soda	3
	Mineral fertifizers, including sulphate of soda, iron sulphate, supplate of ammenium, potassium nitrate, chloride of	
	potesh and Strassfurt salts	92 1
. 1	Superphosphates and basic slag	150,
1	Acetate of time and from parougnite	662
	A the acid	4
ß	Citric seid, tartaric seid, citrates, tartrates	434
-	Hydrochloric and sulphuric acid,	460
	Nitrie acid	27
,	that the state of	
10.	Aluminium sulphate, chlorate and acetate, sulphate of mag-	
	nesium	469
11	Carbonates borates, aikaline, silicates, ammonium salts	4,619
1 1	Calcium carbonate	4 ×
1 :	l'otassium and sodrum chlorates and phosphoric acid	611
11.	Sodium chlorate	4,275
1	Calcium chlorate	3.875
16.	Copper sulphate and other insecticides	6,431
17.	Glycerine	17
1 .	Caustic soda and potash	166
19.	Sulphate of soda, carbonate of magnesium, and sodium sul-	
	phate	4,154
1	Other chemical products (n.o.s.)	3,925

NOTES ON CHEMICAL TRADE.

tcetic acid is produced in Spain in almost sufficient quantities for domestic anomption. It is used for vinegar-making and industrial purposes, and is generally the sed in 25-litre demijohns.

Caustic soda is also manufactured in Spain, but imports are necessitated. Its principal use is in soap-making, and supplies were received normally from Great Britain and Germany. The grades 70° to 72° and 60° to 62° arrived in iron drums of 50 and 100 kg.; the grade 50° to 52° in wooden barrels of 300 kg.

Potassium chlorate, also made locally, is imported normally from France, Great Britain and Norway. It comes in barrels of 100 kg., and is used in pyrotechnics and bur pharmaceutical purposes.

Citric acid, for pharmaceutical and industrial uses, is only produced on a small scale in Spain, though naturally the raw material is accessible in the southern provinces. It is purchased in Italy, France and Great Britain, and is packed for the Spanish market in boxes lined with white cloth of 50 and 100 kg.

Columerine.—There are at least fifteen distilleries in Spain for the production of the erine, which is made both from candle and soap lye. It is used both industrially not for pharmaceutical purposes. The superior English grade is imported in glass mattles. Spain does a considerable export trade in this article.

Copper sulphate or blue vitriol is made in Spain, but due to its great need for spraying the vines and fruit trees, is also imported, packed in wooden barrels of 250 kg. It is obtained now from Great Britain, France and the United States.

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If we seem through a trade to be a read in approach promoter tree, Great Britain, the United States and Indiana. The imports of maker maker trees, whose imports to in 1913 in read 1935 tons. The imports of maker military plaints, and mechanical supplies aim a ted to 71 this in 1913. Great Britain is to disk the chief source of origin.

Railler battains caps command a very 2 and side in the summer mentas as sea bathans at the timeus holiday resorts is very popular. Ruther wearing appared is an classed tog iner in the official statistics, 10 tens being accredited to this modifier for 1913. Great Britain leads in imports at present. The ruther cloth imported in 1913 totalled 10 tons. This also comes principally from England.

Drag sandries, made of rubber, are handled by special stores dealing in such specialties along with societary and medical lines generally. Great British and the United States are responsible for the greater part of the business carried on.

LEATHER PRODUCTS.

The Spanish tunnery industry, though important, still fails to turn out on the whole, high-class leathers. The quality of leather in other words, if considered sufficiently good in Spain for many manufactured products, and even if extensively used,

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Time is rimon.—There is only one important Spanish firm engaged in the salmon-nodic give listry. The reason of a upurated former, but the procequarty of test of reasons and years like with the Content of the reason. There is no extensive demand for the product, though a letter go do salver, it sanicently well introduced, would it is stated, probably have a larger sale.

Character The Spaniards cut considerable quantities of choose and, as might be expected, the domestic analytics are preferred, although normally Swiss, Dutch and I reach choose are to be had on the market. French cream choose or similar varieties are particularly well liked. The larger cities as Burcelona, Madrid, Dibno and Valencia, are the most important consuming centres of this product.

Jams and mirmalades. In addition to the supplies furnished by the home industry, a well-known English house do a relatively small business. Other trade marks are not known to any wide extent.

Scores and pickles. This limited trade is practically divided between American and English suppliers. The Spaniards prefer the fresh salad or prepared native sauces.

Breat fast foods.—The only well-known breakfast food on the Spanish market is Quaker Oats, supplied by the United States, and also of Canadian origin. As the universal breakfast, i.e., coffee and rolls, is the universal custom in Spain, this product has no very large sale.

Butter.—Spanish-made butter is, as a rule, unsalted, and in addition to using home production, which is insufficient for requirements, Norwegian butter is imported.

Hams and bacons.—The preparation of hams is often a cottage industry in Spain, and some excellently sweet ham is cured. Notwithstanding. English and American hams and English bacon are known, but their purchase is limited.

Tea.—Coffee rather than tea is the national warm beverage of Spain, though China and Indian tea can be had at all the principal grocery stores.

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the uffiised, Maple sugar.—A firm at Malaga was met which had just received samples of Canadian-made maple sugar, and which intended to investigate the opening for this product.

Biscuits.—The only foreign biscuits met with in Spain to any extent are of a celebrated English make. The native taste is rather for a rich tart, and the cake shops do a flourishing business in the French and Spanish pastry lines. Ordinary cake biscuits are also made well in Spain.

Sweets.—Besides the important Spanish industry which is centred in small and large shops throughout every town and city. French confectionery is imported, but on a very small scale. One of the best advertised sweets to-day in Madrid and Barcelona, especially in the latter city, is a chewing gum. The Spaniards, however, are not likely to become gum users to any degree.

Cocoa.—The cocoa bean, and not the pulverized or prepared cocoa, is imported. There is a pronounced liking for this drink, and it can be had in all the cafés. Cocoa in tins up to the present has had a negligible sale.

MOTOR CARS

There is at present a great demand for motor cars in Spain, occasioned principally by the increased war-wealth of the Spaniard, who often is willing to-day to pay a very high price for an automobile, if it can by any means be obtained. Spain as a whole, is not suited at present to auto-touring, for though the roads in the north are good, those in the centre are bad, and in the south worse. There are but 8,000 kilometres of main r ads, while there exist 10,000 and 28,000 kilometres respectively of second and third class highways. Not only are the roads generally poor but the price of gasoline is extremely high. To offset the adisadvant, ges, Government plans are being drafted for bettering the reads, and private companies are being formed for the erection of crude oil rether es, estably as there are adout as of considerable oil deposits in Spain, Note the story for the most rear especially in the larger centres.

In 1914, of the total number of cars in Spain, 40 per cent were French, 25 per cent Italian, 15 per cent English, 7 per ent Spanish, and 13 per cent American. In 1918 the percentages show a prenounced variation: French cars 22 per cent, Italian 12 per cent, Fuglish 7 per cent, Spanish 30 per cent, and American 29 per cent. The deduction is obvious, viz.: American cars are getting the bulk of the foreign orders. Naturally throughout the war deliveries in an the belligerants were extremely difficult, and the United States began to loop ahead in auto experts to foreign countries, which place she stell retains in Spain by a considerable margin.

The writer's impression, after talking with varie is in dor ear importers, leads him to believe that any priced car will sell in Spain to day that can be guaranteed delivery. The I wer priced, mediann-priced, and luxurious cars are all in evidence, with a pred minence of the so and type named. If Canadian manufacturers can fulfil short-time contracts through agencies established in Barcels a or Madrid, there is, without question, a wide scape for business at tresent.

The opening for motor forces and e act, regords and passenger services, may also be more appreciable a little later, and such opportunities might be advantageously anticipated and followed.

In connection with the importation of automobiles, there is an excellent opportunity for the sale of automobile access ries, a trade in which both English and American horses for the most part, are now doing considerable business. The maintaining of stody, in the large distributing contres would be essential to success in this line, who a may be said to include the whole gamut of motor supplies and accessories.

WHEAT FLOUR,

The flow milling industry in Spain was built up only after great efforts and with ne little i.s., and has suffered during the war by the many decrees of the Government restricted free laying and circulation of wheat produce, prohibiting exports, and

standardizing prices. Nevertheless, profits are being maintained, the mills have operated steadily, and Spain is able to produce a very large part of the wheat flour necessary for her own uses. The policy has been so far as possible to buy vhat wheat was necessary for supplementing the home crops, and to mill the flour locally, even though shipments of foreign flour are often received.

The mixtures used in the manufacture of flour vary according to the qualities of the wheat milled, and the kinds of flour desired. There are also mixtures either of different qualities of home wheat, or wheat with rye, or home with foreign wheat. The

grades depend upon the respective tastes of the different markets.

There is also a smaller or greater output of flour from the wheat, according to the zones of cultivation. This output ranges from 74 per cent up to 82 per cent. The official percentage of minimum flour output has been fixed by royal decree at 75 per cent.

The most general weights for flour are 100 kilogrammes, single bags, gross.

FLOUR-MILLING MACHINERY.

In view of the important flour-milling industry in the country, there is a demand for machinery and accessories for new plants, and repairs for those already in existence, but the trade in this equipment is, to a large extent, controlled at present by Swiss firms which have their own agents in Spain, although Great Britain also is meagrely represented in this import at business.

OFFICE FURNITURE AND ACCESSORIES.

The writer was struck by the general un-Canadian appearance of Spanish business offices generally, and of some of the leading banking and industrial offices in particular. In fact, the neatly and up-to-date furnished office is the exception and not the rule. Modern office equipment is therefore not to any appreciable extent itilized. In Barcelona and Madrid, however, both American and Spanish furniture, the latter modelled on that from the United States, can be seen in a few big shops, and it is these two centres that the principal business in such lines is done. The Spaniards are a good deal of native furniture, which are copies of old designs, and there still seems to be a reluctance in most quarters to part with the old-fashioned system and instal more commodious furnishings.

Filing cabinets and other similar office devices, almost exclusively of wood, are also on sale, and are coming into more general use. Steel sections and accessories are not popular because the tariff duty and freightage render prices comparatively tigh.

Loose-leaf record books and loose-leaf filing systems are also not in any extensive demand, as in conformity to Spanish commercial regulations, business houses keep their records in books fully bound, folded and paged, a method which is supposed to prevent any dishonest practice in the keeping of records or in the exhibiting of misleading documents in suits of law.

With regard to other office supplies, it may be pointed out that (1) American carbon paper commands the market at present; (2) that typewriter sibbons come from England and the United States; (3) that stamp pads are of German or French manufacture; (4) that sealing wax is of French or British origin; (5) that pencils are of German, Austrian, American and English trade marks; (6) that pen points rrive from England, France, Switzerland, and Germany; and (7) that fountain pencome from the United States and Germany.

TYPEWRITERS.

The United States is well represented in the Spanish typewriter market and does, it is stated, fully two-thirds of the total trade. English machines are also to be had, and in ante-bellum days the Germans pushed the sale of several of their makes which,

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vith ient and if inferior in quality, were well established on the market, and competed most favourably as regards price. German selling terms were also more accommodating. There is Spanish make, but its purchase is very limited. It is estimated that over 1,000 typewriters are imported every month into Spain and the demand is not only continual but increasing.

SEWING MACHINES.

It is estimated that ever 80 per cent of the sewing machines sold in Spain are made in the English factory of an American company. A few other types are sold to a very limited extent, while in pre-war days about 10 per cent of the business was carried on by the Germans. The custom in Spain is to import only the machines themselves, and erect the stands and framework in the country, thereby avoiding very heavy customs duties. Sowing machines are sold both outright and on the hire or instalment plan of so many posetas per month. The company referred to have built up a most carreaching organization of their own throughout the peninsula, but the German business was done by wholesalers who had the woodenwork made, and sold the completed machine to the retailers according to their demands. Successful competition of this article would be extremely difficult.

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Consequent apon the gradual reduction in German toy arrivals, the Spanish toy industry, already considerably developed, showed signs of increasing activity, and is in a comparatively good position today. It hact, the value of toy exports at present from Spain is, it is stated, four times what the total value of imports was in 1914. Not only are Japanese toys, however, seen in the shops, but it is believed that Germany will regain much of her former pre-eminence in this trade. The demand at present is most insistent for mechanical and wooden toys. The terms in this trade are stated to be generally thirty days, or 2 per cent discount with cash.

MUSICAL INSTRUMENTS.

There is a growing demand for all kinds of de luxe articles on the part of the Spaniards, many of whom now find themselves in a position to buy such goods owing to the fortunes made during the war. Under this de luxe heading may be placed pianos, player pianos, victroles, gramophones, etc. The Germans had the Spanish piano trade under control in pre-war days, while the French were masters in phonographs and similar instruments. Of more country years the player-piano is finding acceptance, and those seen are principally of American origin. The writer was informed, moreover, of one commercial traveller from the United States who returned to America with his pockets bulging with orders for victrolas after a month's stay in Spain. This but indicates the general tendency to have luxuries in Spanish homes.

Pianos are at present very difficult to secure, and a good business could undoubtedly be done with Canadian makes if the matter were taken up energetically and deliveries could be assured. Although the Germans sold mostly a medium-priced upright piano with the usual candlesticks attached, yet type and price to-day do not seem to be primary considerations.

HABERDASHERA.

The writer was informed that though most of the goods coming under the heading of haberdashery could be obtained from Spanish makers, yet an energetic and intelligent trying out of the market would doubtless lead to trade development. France has worked up a substantial business for example in cotton socks for men, in white sink gloves, and in men's garters. The United States sends men's suspenders and braces, and a Canadian line of the latter was also seen in one of the big Malaga stores. The neckwear to be had is generally of inferior quality, with the exception of the genuine English silk knit ties, and business is offering.

Ready-made shirts in the more subdued colours, with turned-back unstarched cuff, and either closed or in coat style, would also find openings, though very frequently shirts, like boots, are made to order. In addition silk stockings with reinforced heel and toe, and ladies' coloured silk underwear, are imported. Men's underwear is mostly made in Spain, and collars are manufactured in the continental measurements. Handkerchiefs are both made at home and imported from England. Further, high-grade imitation jewellery is sold quite extensively.

TOILET ARTICLES.

American and French goods predominate in the foreign supplies of toilet articles on sale, and perfumery shops, which are quite distinct from pharmacies in Spain, have on display various lives of United States soaps (shaving and toilet), tooth-pastes, tace creams, toilet powders, etc. In the case of toilet waters and perfumes, the French article is imported, although eau de cologne and similar products are distilled in Spain. Toilet soap of an excellent quality is also put up in the country in boxes of three, six and twelve cakes. Perfumes are sold usually in bottles of 10, 15, 20, 25, 30, 40, and 50 grammes. In this toilet preparations trade the United States has obtained a big share of the business that once went to Germany.

PART V.

Banks, Railways, Shipping, Postal and Telegraph Service.

BANKS AND THE BANKING SITUATION.

If in the first weeks of the war the solidity of various Spanish institutions of credit was shaken and the activity of a great many more decreased as a result of the economic repercussion occasioned by the outbreak of the conflict, yet the adjustment which followed, together with the necessity of credit, the increase in money circulation and in savings, and the development of the nation's industrial life, all tended to favour banking operations and to promote the prosperity of the banks. This progress which has taken place is reflected in the increased savings deposited in the banks, in their augmented capital, and in the greater dividends declared. What is more, several new banks have been established, and branches of existing banks opened up.

Espana Economica y Financiera, the leading financial weekly of Spain, published in July an interesting study of the banks operating in Spain. With the reports of thirty-seven of the leading private banks as a basis for deduction, it was pointed out that, whereas the paid-up capital of all these institutions averaged 226,600,000 pesetas annually for each year of the 1909-13 period, in the 1914-18 period the corresponding figure was 260,930,000 pesetas, or an increase for the war period of 34,330,000 pesetas. In addition, while the paid dividends for the pre-war years 1909-13 of these same banks averaged annually 16,660,000 pesetas, they rose to 21,160,000 pesetas annually during the 1913-18 period.

Further, the savings in all the Spanish banks increased as follows during the period 1915-18:-

Year.		Deposits.
1915		4,264,555,000
1916	44	4,782,495,000
1917		5,345,847,000
1918		6,250,006,000

So much for capital, divident and deposits. What is also worthy of note is the fact that during the war period the Spanish banks began to open numerous branches

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in the provinces, while at the same time new banks sprang up, such as the Quesoda and Urquijo, both of which promise to play an important part in Spain's banking operations. There have also been established in Spain during the war four well-known foreign banks, viz., the Royal Bank of Canada, the London County, Westminster and Parr's Bank, Ltd., the Angle South American Bank, and the Hespani-Austrian Bank, and more recently still the National City Bank of New York.

BANK OF SPAIN.

The present situation of the Bank of Spain or State Bank is in itself indicative of finer old strongth, as the full wing figure. In trat :

Situation on September 13, 1919	
10016	145 - 1.1 :
Gold in hand.	2,110,302,783
Confesion forts and some some of all	78,082,077
Silver in hard	640,639,203
Bronze in hand	2,402,513
Draits due .	9 110 518
Treasury bonds, Aug. 1 18 2	1181 (**** - \$337)
Its onets	9.07,214,271
Chelt he out to a	62,781,154
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Perpotral states a debt, bear cont	141 474,901
Pul tressay on 1892	1 '01,000,000
\ \11, \partial \sigma \qquad \qq \q	6 1,62 1, 1 1 2
	7,261,895,091
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Current accounts	989 (14, 189)
t to the second	1,000 110
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In surer than water well	25,441 227
· · · · · · · · · · · · · · · · · · ·	25,152,551
Perpetual interest with the property of the con-	185,695,690
Parameter to the property of t	45,515,277
The contrast of the contrast	19 111.143
Studios	110,010,736
	5 (901,845,301)

In July, 1914, the Spanish gold in hand only amounted to 540,000,000 peachs. The tendency of the past has been to subordinate the sphere of action of the private backs to a system of concentration in one strong bank or the Bank of Spain. This stem restricted operations and loans, but the present trend of business, while not weaken up the inherent strength of the State bank, is toward strengthening the private institutions, which are gradually becoming more important in negotiating loans and in conducting commercial discounts and bourse operations. Especially is this true of the Bank of Bulbac and the Catalan banks, among which the Bank of Bare long stands ut pre-eminently, and which is the most influential commercial bank in Spain.

FOREIGN BANKS IN SPAIN.

Besides the foreign banks which started Spanish business during the last five years, there are also established in Spain the Credit Lyonnais, the German Transatlantic Bank, the Bank of Rome and the Spanish Bank of Rio de la Plata. It was estimated that the volume of business done by this latter group used to amount to at least 3.150,000,000 pesetas annually, while the English banks and the Royal Bank of Canada are to-day doing a most flourishing business. These British banks have all brought with them modern methods of banking, and by their courtesy, reliability, alertness, and

facilities, are not only gaining the confidence and the approval of the Spaniard, but are even outstripping many of the Spanish banks themselves. The Anglo-South American Bank has branches in Barcelona, Madrid, Bilbao, Vigo and Sevilla, the London County, Westminster and Parr's Bank, Ltd., operates in Madrid and Barcelona, and the Royal Bank of Canada in Barcelona. It is now reported, moreover, that the Italian banks, viz.: the Commerciale and the Banca di Sconto are about to set up at Barcelona, and latest advices also mention that the Banks of England and Mexico are coming to Spain.

ROYAL BANK OF CANADA.

The Royal Bank of Canada with its extensive organization in Spanish-speaking countries throughout Central and South America, is especially equipped for carrying on business between Spain and the Spanish-American countries which are so vital to Spain in her commercial relations, and which are bound to her by so many common ties of interest. The existence of a Canadian bank will also undoubtedly prove an essential of no small account in the development of Canadian-Spanish trade, but Canadian manufacturers, exporters, and importers, will only be able to appreciate its services when they begin to take an interest in the Spanish market and commence and develop actual trade exchanges. Increased trade will not depend upon the fact of the bank's existence in Spain, but the extent to which Canadian traders will avail themselves of the facilities it affords.

THE GERMAN TRANSATIANTIC BANK.

The German bank, with offices in Madrid and Barcelona, carried on a very considentiale in siness in ante-hellum days, but its operations were most appreciably affected by the war, and up to the present its tangible reassertion has been relatively megligable. However this may be, it is to be predicted that eventually at least its oldtime power will manifest itsef, and even recently it may be presumed that much silent as it has been taking place. The credit facilities of this bank were most advantageous to the Spanish importer, and on account of its first-hand information as to the standing of the merchant, it was prepared to open a credit for him, and when the proper endorsement had been given by both importer and experter to carry him over a period of several months or in some cases one, two or three years. It did more, however, than give credit to the Spanish importer as it also would finance German agents in Spain to the extent of discounting accepted bills for any reasonable period which on some much nery orders amounted to from three to five years. It moreover was always in a position to link up Spanish buyers with home producers both by its direct contact in Spain and by its distribution of data in Germany. Another way in which the German bank made itself felt was in the interest it took in the industrial undertakings and development of the country, being wise enough to see the opportunities thereby affered for plant and equipment quotations. In fact it was a trade bank primarily. and all other transactions were treated as of minor importance. It made full use, for its own archives, of the information it obtained in negotiating the documents of the Spanish or other non-German traders, and in welcoming and encouraging such work, the findings of which were always communicated directly or indirectly to interested parties at home, believed it was doing a patriotic duty.

STANISH RAHLWAYS.

Railway communication in Spain leaves much to be desired, and some of the more approximate weaknesses of the railroad system may be enumerated as follows:

(1) The milean is small.—Altogether there are 9,680 miles in operation, with which total Spain has fewer miles of railways per square mile than any other leading European country. For every twenty square miles of territory there is but one mile of railward, and there is only one mile of railroad for every 2,169 inhabitants.

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- (2) The amorts our. The Spanish railways are classified as broad gauge (1.67 metres—5.48 feet) and as narrow gauge (1 metre or 3.28 feet). The former is found on the main lines, the latter on the secondary or "linking-up" lines. About one-third and two-thirds of the stall mileage belong to the respective systems. With two distinct gauges within his borders, there is the added disadvantage that aeither of these gauges conforms to the international European standard of 4.69 feet. Thus Spain's internal and external traffic are both materially hampered, as transhipment is so frequently necessitated at it is one and always at the French frentier.
- (3) The rests are rest is ligner as then should be. Thus off the main lines, all of which radic te from Modral, travelling is todo usity slow. For example, the writer spent excite to the first of the state of many tangle come going from Mursia to Gramada, a distance of small slower server, travelling at the rate of the excentions an nour, and proceed inguined distance as a first our mass. It is often in the convenient to return to Madrid and take the many this is not that try to cross country, especially as there run from the carital right Pines of the state the principal outlying districts.
- (4) In agrees a consequence of recent the second constant and the country of the second consequence of the country, but it would seem that more careful or deliberated engineering enginally would have offset considerably this drawback, even though a larger outlievest expert a would have near involved.
- that are received used for the first transfer of any extended system of double tracking as a very construction in the total first and latterly two of the most are at 10 m. And a construction as have regumentally constructed.
- A reflection to a context is entire. Span, kept on virtues 21 vars and strail and continues a reflective 1 to a context. In actual reant of extension, over a recent tensival period, the evenues of the increase vas very significant or another unless. This takes a drawn of the extension to a context of the Government, as called subsequences, i.e., strain training and a traggress of ray vay programme which that there is a context of a context of the first of the context of the context
 - If Its expression is soming to the main fairous confinctoristics of the country,
- 2. The content and at times disconnight government or ranway concessions are all tell.
- If the set, "Thus of the necessary capital on the part of the Spacish banks, the Spacish pure," and recognitive stors

If it is stimult, we'der the covernment, and the Ministry of Public Works are many proposed roads actors the Covernment, and the Ministry of Public Works is said to be determining which lines are most urgent, and which are the most adapted for link again present systems and tapping districts still unserved. In all it is estimated that 10,000 additional unless could be built to advantage, and the projected building is the subject of much discussion to-day. Whether all or only a part are now completed, it is the expressed opinion that an immediate expansion is inevitable. It may be pointed out that by Royal decree of September 22, 1917, the Government has guarant of the phyment, by State bonds, of the interest on the capital invested after the granting of convessions, the amount of such bonds in any one year not to exceed 12,000,000 posetas.

The significance for Canada of the proposed Spanish railway development lies partially in the fact that all track extensions will entail additional rolling and stationary stock, while the placing of much of the dilapidated material now in existence should also be carefully watched.

Electric traction on several of the secondary railways is to-day a mooted question, and there will also probably be a development along this line

RAILWAY CAPITAL.

The total capital invested in the construction of the broad gauge lines is approximately 3,500,000,000 pescies, of which about 900,000,000 pescies are capital stock,

2,250,000,000 pesetas bonds, and 350,000,000 State subsidies. Nearly all the capital is foreign, the largest of the trunk lines being for example in the hands of the French. A large number of the bonds are now held by Spaniards, however, and in fact though once the monopoly of the Paris market, they are of late finding their way to Madrid. The average cost per mile of the broad gauge railways, the majority of which are single track, has been approximately 452,500 pesetas. The narrow gauge railroads have cost over 600,000,000 pesetas, much of the invested capital being Spanish.

TINANCIAL PROBRESS.

The increasing presperity of all the Spanish railways is worthy of note in the last years interior to the war, when after many difficulties the railroads entered upon an era of financial success. In 1910 the total revenue derived by all railways in Spain i mounted to 346,001,400 posetas, to 403,654,761 posetas in 1913, and in 1917 to 487,251,136 posetas. Expenses, however, were correspondingly raised from 167,-367,822 posetas in 1910 and from 211,683,252 posetas in 1913, to 325,582,046 posetas is 1917. While the heavy is the consequent upon the suspension of constwise shipting in 1915 and 1916 tended to improve the general condition of the railways, in 1918 the inflated prior of coal and other materials began to counterbalance the nervois decreased currences. In December, 1918, 15 per cent increase on the existing tariffs has a treation by the Government, but the latest information reveals the fact that xpenses are outrousing current revenue, and a further advance is being demanded to the rail of the stockholders nor can finally be set uside for the much tendered per raye to the stockholders nor can finally be set uside for the much tendered per raye to the stockholders nor can finally be set uside for the much tendered per raye.

RAHWAY STAIRSEDS.

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BESTALE AND EMPENDITURE.

The following statistics show the revenue and expenditure of the three most important radway companies for 1913, 1917 and 1918:

Lines.			
North -	1913	7417	1918.
Revenue	154,790.0 76,970.000	180-120, 000 123,660,000	200,350 000 166,870,000
Madrid-Zaragoza: Al 15			
Revenue	123 049,000	165,117 0 0	187,260,000
Expenditure	64,370,000	100,700,000	140,010,000
Andaluces-			
Revenue	28 6 (0.400)	17.71 (400	35, (20,000)
Expenditure	15×100000	23.640,000	27,740,000
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Lat Supersy Sett visos to Sp. 3:

Spain's geographe all position gives her 2,000 nules of sea coarsts along which are a hundred regreeus, and honce her coastwise and over east trade is of primary importance. Naturally the war exerted an appropriate influence on Spain's stationizations, and the gradually lessening numbers of toroign vessels calling at Spain's has resulted at in restricted heng carried at Spain's, bottoms, though considerable reduct, us at roots inward and outward tenings are not recomble, due to consess which need no restriction here. The other most obvious effect has been the greater use of salter cassels arriving at Spainsh ports, which that may be attributed occurring the restriction of extended employment in coastwise shipping. The high scan rates more over, and the dangers of the submarrine tended to encourage rankway irright tradet throughout the periods of and merchants have often forwarded and received by red what formerly was accust and to go or come by seen

The statistical tables which follow illustrate electly the position of the lineard and outward tradeg of Spain during the quinculantial period 1913 18.

TOTAL SPANISH VISSUS ARRIVING.

The tohowing statistics express the number of boats belonging to the Spanish mercantage marine which entered Spanish ports in the five-year period 1910-18, with cargo.

	S' . 111 . 5	~ 1 1 1.2 \ + ~ 1 4.	7
3 11 1	r	* * * *	
1914	. 4	**	1 412
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TOTAL TORRION VESSELS ARRAINE.

The Coll ving statistics, xpress the number of leads belonging to the ign these whole enters a Stanish to its in the factor of period 1913 18, with care of

	41.	State Viene	1 . :
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THE RESPONSE AND FOREGON BOATS ARRESTS.

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the second secon	1 ^	F1 F	5.8.7

Whereas in 1913 the vessels flying the national dag which arrived in the ports of Spain represented 60 per cent of the total number, and the vessels of foreign flags 40 per cent, the percentages for 1918 are 89 per cent and 11 per cent respectively.

VESSELS IN BALLAST.

The agrees shown bereunder give the total number of Spanish and foreign boats in ballast entering Spanish ports in the 1913-18 period:

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	National	I'man uti	'f'of il
114:11	4,7×2	1,773	10,555
1914	4,153	4,171	8,324
1 * 1 *	1,002	2.751	7,113
1'>1'*	4,800		5.075
1417	4,41+4	2.679	7,37
1 + 5 %	4,451	. 16.7	0.615

TOTAL SPANISH BOATS CLEARED.

There is reproduced herewith a table showing the number of boats belonging to the Spanish mercantile marine which cleared Spanish ports in the quinquennial period 1913-18, with earge: --

	Steamers.	Sailing Vessels.	Total
1910	7,865	1,563	9,428
1 '+ 1 1	6,864	1,815	8,679
1 1 1 1	7.206	2.105	9.311
11:1:	7,107	3,051	10,158
1917	5,170	5.172	10,342
1915	. 4,331	5.656	10,017

TOTAL FOREIGN BOATS CLEARED.

There is subjoined a table showing the number of foreign boats which cleared Spanish ports in the quinquennial period 1913-18, with cargo:—

	Steerner	Sailing Vessels	Tortil
1913	* , , 1	159	×.1"1
1 14 1 4	6,046	2 €1 +	305
1415	7.9.7	4	1 137
1 14 1 41	1,2003	7,11,3	4.703
1917	2.938	242	3.330
1415	2 105	473	2.578

TOTAL SPANISH AND FOREIGN BOATS CLEARED.

A resumé of tables 5 and 6 shows total numbers of Spanish and foreign boats cleared from Spanish ports during 1913-18 period.

	National.	Fores211	Total
191	9,428	5,1.1	17,559
1914	. \$.679	6 15	15,014
1915	9.311	4,107	13,748
1910	10.158	\$, " 11"	14,861
1917	. 10,342	3,330	13,672
1415	10,017	2,575	12,595

TOTAL TONNAGE DISCHARGED FROM SPANISH VESSELS.

Hereunder is given a table showing the tonnage discharged in the ports of Spain from vessels flying the national flag (thousands of tons):—

				Steamers.	Sailing Vessels.	Total.
1913 .				2.249	24	2,273
1914			 	2,060	17	2,077
1947 .				1,729	30	1.759
1416			 	2,277	28	2,305
1917.			 	1,484	52	1.536
1915			 	1,124	51	1.175

TOTAL LONGLE DISCHARGED FROM FOREIGN VESSULS

Hereunder is given a table showing the tonnage discharged in the ports of Spain from foreign vessels of horsands of tons?

1 to 1 pm to	47, c7716 T	Sular Nossels	4. 1.1.
1 +1 *	1.45	14.1	1:
1 (1)	1 4 -	1	
1 11	1 4 -	1 + 1	1.0
1 14 1 17	I man	7 *,	741
1917	1,00	111	1 6 1
1.11:	164	* *	***

TOTAL CARGO DISCHARGED.

A resumé of the two preceding tables shows the total earged in Spanish ports during the 1913-18 period (thousands of tons).

	Nather 1	1, ++1 + "".	T.O.
1 112	1 6 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1	1 -1"	184
1414	2 1177	3 m f	5 % %
191	1,770	1	4 1 4
1 (1)	1. 70	11.	7 1 7
1.017	1 17		1 41 =

TOTAL CARGO LOADED.

The table herewith given illustrates the total number of tons loaded in Spanish ports during the period under review (thousands of tons)

	Not and	F-121	, - 1 L
1 + 1 .	\$ °, 11	17	14 x 7 1
1 4 1 4	* 4 * *	4 - 4 - 4	11.14
1 + 1	2.17	1,51	+ +1.4
141+	2 80 4	7 7	1 1 1 21
1917	21 2 14	7 11	0 1
1 115	1,4,26	4 " \	7.109

THE SPANISH MERCANIHI MARINE.

A reference has been made in anoth repart of this report to the shipbanking it dustry in Spain. It is here purposed to outline the fluctuating movement in the tonnage of the Spanish mercantile marine during the war:

VESSELS AND TONNAGE.

Verr	Sailing Vessels Tons (dead weight)	Steen ets Tons (dead weight)	Tota-
1'+1-1	17.18	17 1 T 1 2 T	743.32
1:11:	7297	844 322	877.191
1011	32.970	511 722	F17 203
1917	29,118	875,540	401,667
1916	31.101	\$16,757	417 444
1917	31,209	749 545	780,757
1918	74,200	691,498	763,707

The perceptible reduction in the above recorded tonnage between the years 1915 and 1918 is due of course to the operations of the German submarines and in part to

sales of Spanish vessels to foreign flags.

It has been calculated that the number of ships of 250 tons or more torpedoed from the beginning of the war to June, 1918, aggregated 51 with a total tonnage of 123,176 tons. Floating mines accounted for 6 others of like size totalling 16,731 tons. On the other hand in 1915, 19 Spanish vessels with a total tonnage of 44,594 were sold, and as huge profits were being derived from such transactions the tendency was to put still others on the open market. Such procedure, threatening as it did the d nationalization of the Spanish mercantile marine, already encouraged by State subventions, led the Government to issue three consecutive decrees in self-protection. The first prohibited from January 7, 1916, the sale to foreign countries of vessels whose tonnage was superior to 500; the second from January 26, 1917, extended the prohibition to vessels of more than 250 tons; and by the third decree of December, 1917, it was for-

bidden to sell any kinds of boats of whatsoever capacity to i reign countries. A midsummer decree of this year, however, modified these restrictions and has an horized the sale abroad of sailing vessels of less than 500 tigs register, as the ship unlding yards are turning out small sailing craft at a greater rate than required for domestic needs.

It may be pointed on that the subsidies given by the Government to shiplen ldong companies since 1909 have been of undoubted stimulus to this important industry, evidence of which may be seen in the fact that the tomage of the mercantile marine increased by 161,000 tons during the five-year period 1910-15. It is now predicted that Spain will soon have a national shipping service of 1,000,000 tons and will grad-

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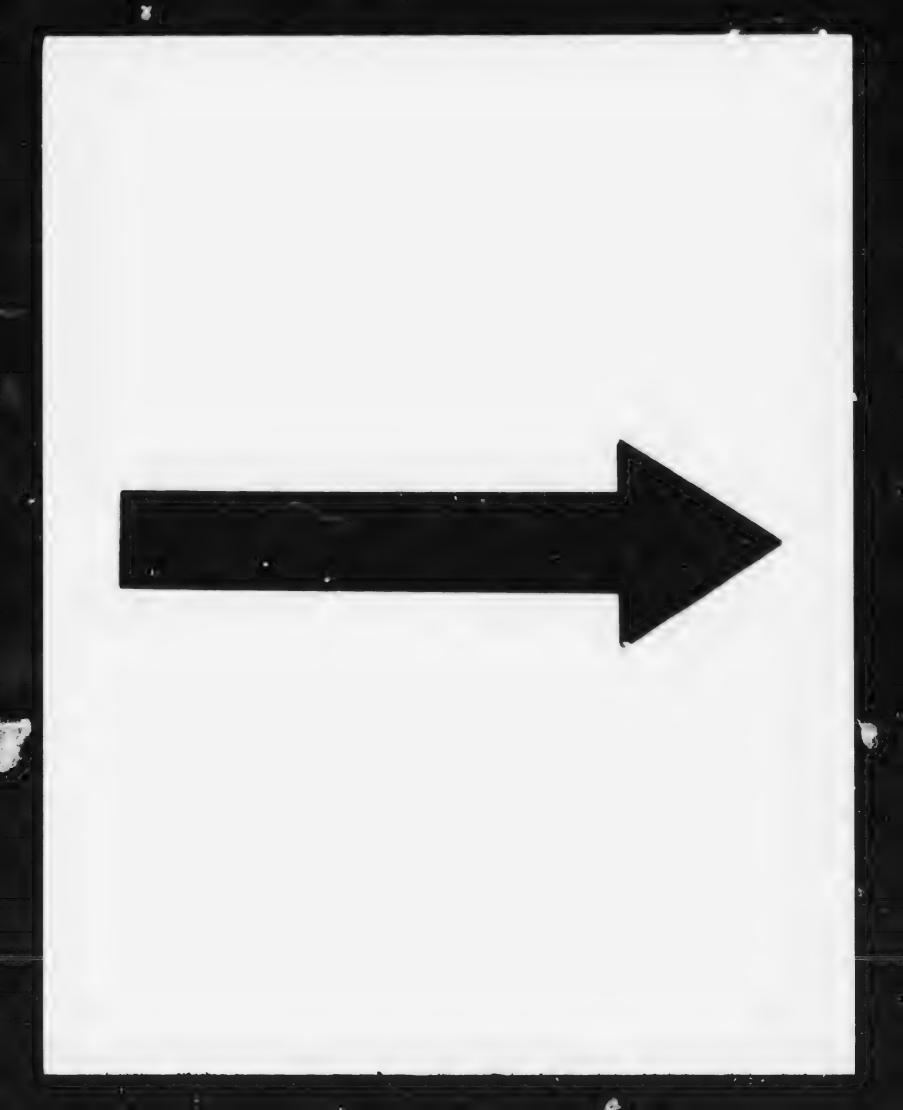
Puerto del Sol. Madrid

ually regain her former greatness as a mercantile power. Although at the outbreak of the war Spain's merchant marine occupied the twelfth place in comparison with other countries, at the beginning of the century her standing was in the sixth place.

TRAFFIC IN PRINCIPAL PORTS.

The following table, prepared from data in the government returns of Spain for 1913, shows the cargo loaded and discharged from and for foreign countries in the principal Spanish ports:

Cargo Dis from F Destina Ports. To	oreign for Foreign ations. Total
010	.249 3,068,167 3,987,516
EMILIANO	702 213,937 2,326,640
17011 (101100)	3,301,292
III CIVICIA CONTRACTOR	634,779 1,200,226
Valencia	
	7,000
	1919
	900 050
	1,000
	7,004
Cadiz	1,437 232,648 384,084
Corunna	0.398 9,116 109,514
Alicante	1.013 133.076 324.089
	0.329 142.148 302.477



MICROCOPY RESOLUTION TEST CHART

ANSIGNATISC TEST CHART No. 2





THE PORT OF BARGELONA,

The port of Barcelona, from an economic point of view the chief Spanish seaport, is one of the most important in the Mediterranean, and is in fact only surpassed in importance by Marseilles, Genoa, Trieste and Alexandria.

The inward and outward movements of this port for the 1913-17 period are given bereunder:

Years.	Ships Arrived,	Tons of Merchandise Discharged.	Tons of Merchan- dise loaded
1 (1)	4 1 102	4.164.5 /5	11 4 1 7 1 4
1 (1)	5,474.1	2 154 218	316,065
1 1	1.744	7.978.844	7.43, +6.4
	191	2 018 1 44	701,048
. 1.	v = 1 · 4	1 4 - 6, 111	670,639

NUMBERSON OF VOLUME AND VALUE OF TRAILING

In 1917 the total value of foreign imports was 335,394,000 pesetas, and exports 515,812,119. The merchandise discharged from coasting vessels was valued at 187,379,000 pesetas, while that shipped outwards to other Spanish ports was valued at 312,868,000 pesetas, the balance in favour of goods discharged amounting to over 125,000,000 pesetas.



Panotamic View of Barcelon,

According to statistics for 1909-13, the amount of exports in tons was about me-seventh of the amount of imports, while the value was approximately one-half.

Due to the fact that the principal imports into Barcelona consist of raw materials and articles necessary for industrial purposes, they are generally of a large volume in relation to their value, and as on the other hand the greater proportion of exports are manufactured goods these have a large value in relation to their volume. In this respect Barcelona differs from Bilbao, which rivals it in its movement of shipping, but which chiefly exports raw materials (iron ore), the amount of general merchandise only receiving the contract.

BARCELONA MOST IMPORTANT FOR SPANISH TRADE.

The district from which Barcelona draws its trade is much smaller than Marseilles or Trieste, each of which practically serves the whole of central Europe. As a port, Barcelona draws principally for the extensive Cataian trade, and its influence is virtually not felt beyond the Spanish frontiers. For this reason, extensive warehousing for transit trade has up till now scarcely been needed in this port.

HARBOUR NOT NATURAL.

The port is not a natural harbour and an enormous amount of construction work has had to be carried out, but it may now be considered as safe as any other artificial port existing.

UPKEEP OF PORT.

Like all the other Spanish ports, Barcelona belongs to the State, and is controlled by a board of administration on which the authorities (Naval, Customs and Health) have representation. Acting upon this board are also the local Government bodies, i.e., the municipality, the provincial chamber of deputies, and associations of a commercial and industrial character, such as the Chamber of Commerce and Industry, the Public Works Society, and the National Association of Shipowners and Shippers.

The money necessary to pay for the work already done and for the improvements and extensive development at present going on, was and is still in part obtained by a tax levied on all merchandise imported. Since 1909 the State has given an annual subvention of 150,000 pesetas. In order to meet the enormous cost of upkeep and extension, the board of administration has negotiated several public loans amounting in all to 28,000,000 pesetas; the interest and amortization of these loans are punctually met from the above sources.

PORT FACILITIES.

The total length of the breakwater at Barcelona is more than 3 kilometres, the entire installations occupy a superficial area of 300 hectares, of which 85 form the outer roadstead, while 150 are occupied by the basins (all of which are completely sheltered from the wind and sea), and the rest is taken up with quays and embankments.

The length of quays to which ships can be moored is about 8½ kilometres, with a depth of water varying from 8 to 11.20 metres. The ground available for the deposit of goods is over 250,000 square metres, more than one-fifth of which is at present roofed in, and in a short time over one-third of the space will be so covered

For the transport of merchandise, the port has at present over 9½ kilometres of railway, and is linked up with the lines running into Barcelona. To facilitate operations of loading and unloading, there are a number of bridge derricks, and electric, hydraulic and floating cranes. The warehouses, which cover some 7,200 square metres of ground, are tour-storied buildings with cellars and are provided with chambers for cold storage and grain elevators. There is also a bonded warehouse, in which goods for re-exportation can be deposited without having to pay import duties. Preparations are being made for the installing of large bonded warehouses, where certain kinds of products can be mixed, repacked, etc., and if convenient, re-exported without paying customs duties on entering. These warehouses will be managed by a special board.

For the repairing and cleaning of ships, there is a Clarke & Stanfield floating dock which can receive vessels of 170 metres long and of 6,000 tons in weight. There is also a yard for careening ships of 300 tons, and several shippards belonging to private companies.

PROJECTED WORKS.

The different works projected and likely to be finished in a relatively short time are as follows: The construction of siles with a storage capacity of 50,000 tons of cereals; a large bonded warehouse which is to be temporarily installed in sheds; a drydock for ships over 170 metres long; a cleaning and dredging equipment; a central power station for electricity; and later on the construction of a complementary inner port on the left side of the delta of the Llobregat river.

SHIPS ON BARCELONA REGISTER.

At the end of 1917 the number of ships on the register of Barcelona amounted to 148, with a gross tonnage of 185,331 and a net tonnage of 115,959. The principal shipping companies using the port are the Transatlantica, with 121 ships (98,697 tons gross); the Transmediterranean, with 14 ships (19,453 gross tons), and Hijos de José Tayà, with 19 ships (17,186 tons gross).

It is also a regular port of call for numerous other Spanish shipping companies, whose ships are, however, registered at Cadiz, Bilbao, Sevilla, etc.

PORT DUES AND TAXES.

The port dues payable by steamers arriving in Barcelona to load or to discharge, are as follows:--

Port Upkeep (Obras del Puerto).—A local tax imposed with the sanction of the Government to meet the cost of the upkeep and the expenses connected with the additions being made; it is levied on the actual weights of cargo discharged, at the rate of 2 pesetas per ton of 1,000 kg., irrespective of the class of goods of which the cargo is composed, or the country from which it comes. It is not levied on ships loading.

Transport Tax.—The transport tax was instituted in March, 1900, to take the place of the then existing national dues on shipping. It is levied on vessels loading and/or discharging, as follows:—

For practical purposes navigation is divided into three classes:-

The 1st class includes coasting tode between Spanish ports and is limited to vessels under the Spanish flag.

The 2nd class includes the trade between Spain and European countries, Asiatic and African ports in the Mediterranean and in the Atlantic down to Cape Bojador.

The 3rd class refers to Spanish trade with the rest of the world.

2nd Class.

The figures shown hereunder are all for one ton of 1,000 kg, for cargo loaded or discharged:—

Description of Goods—	Discharging Dues. Peretas.	Loading Dues.
1. Iron ores, slag and pyrites	1 0.0	0.50
2. Other metalliterous minerals	1 50	1.50
o. Coal and coke,	0.50	0.50
4. Lime, cements, paying stones, clays for build	ing	0 , 17 17
purposes	0.50	0.50
o. Fig-iron	2 00	9.50
o. Fig-lead, copper matte.	9 00	1.00
. Common gait	2 0.0	0.10
o. Cerears, Wille.	4 00	2.00
9. Manures*	2.00	0.25
10. Empties.	free.	free.
11. All other merchandise and builion.	5 00	9 50

Under headings manure are included nitrates of soda, sulphates of potash and soda, sait of Strassfurt phosphates of lime and chloride of potash.

3rd Class.

The figures shown hereunder are all for one ton of 1,000 kg. for cargo loaded or discharged:-

68 A mg C - C4 1	Discharging Dues.	Londing Dues
Description of Goods-	Pesetas.	
Iron ores, slag and pyrites Other metalliferous minerals Coal and coke	2.00	0.20 1.0 0.5
t. Lime, cements, paving stones, clays for bui	0.50	0.50 0.50
5. Pig-iron. 6. Pig-lead, copper matte	8.00	1.00
8. Cereals. wine	5.00	2.50 2.25
10. Empties		fr∈0 5.00

Under headings manure are included nitrates of soda, sulphates of potash and soda, solt of Strassfurt, phosphates of lime and chloride of potasi.

TONNAGE DUES.

Steamers loading or discharging part cargoes in Spain for or from transatlantic ports, when having on board other cargo from er bound to European ports, must pay:—

- 0.75 pesetas net registered ton if handling over one-half of their carrying capacity, or
- 0.50 pesctas per net registered ton if handling less than one-half of her carrying capacity.

Steamers loading exclusively fresh fruit cargoes are, however, excepted. Steamers have also the option to pay instead of above a yearly tax of 2 pesetas per net registered ton for 12 months.

Steamers loading or unloading a full cargo in Spain do not pay these tonnage dues.

QUAY TAX.

This tax is actually levied on steamers according to the length of the ship, the time in port, cargo handled, etc. For sake of convenience it is reckoned at 0.10 pesetas per ton on coal and up to 0.20 pesetas per ton on general cargo.

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THE PRINCE OF CASH AND COUNTRY AS WARRESTS

By royal decree of September, 1914, Cadaz was created the first free port of Spain. The creation of establishing tree ports in the peners the had often previously on, proposed, but it was only on the outbreak of our when the service of various



Caliz from the Sea.

tree ports a Europe was interrupted that any definite action was taken by the Spanish Government. As a matter of fact the immediate occasion of this move on the part of the Cortes was a request addressed to the Ministry of State by the Spanish Chamber of Commerce in Havana which strongly advocated its establishment. Acting on the authorization of the Government, the Junta of Public World at Cadiz, to whom the concession for working the free port was given, transferred their rights to the Sociedad Credito v Docks de Barcelona, which already was operating the commercial warehouses at Barce establishment.

The free port of Cadiz, as the phrase implies, allows inter alia the depositing of merchandise in the warehouses provided, without the payment of any customs duties or other charges except of course storage and insurance dues. The period for the



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ready existing are being utilized, but plans are now blue-printed for the construction of the ware loases connected more directly with the port and the raily vaccious. The use of free parts in the development of international traffic is evident, and one of the most conspicuous advantages of the free port of Cadiz are the facilities offered for the temporary storing of goods to be transhipped to Morocco and Northern Africa. Canadian exporters should keep this fact in mind.

Free port privileges have also been granted to Bilbao, Santander, Vigo, Corunna, and Barcelona, but in more of these harbours is the free port as yet a reality. Commercial warehouses, however, which involve in a limited degree free port privileges, exist at Barcelona, Mahon and Malago.

Post office, appreciating the recepports.

The Spanish Post Office carried in 1913 in the land service 352,386,574 letters, post-cards, printed papers and samples, as compared with 471,091,768 in 1916, the last year for which published statistics are available. In the international service the total in 1913 for similar objects was 106,637,389, and in 1916, 47,318,784. In 1916 the lostal revenue amounted to 37,998,804 pesetas, and expenditure 19,552,275.

The length of telegraph lines in 1913 was 60,891 miles, and in 1916, 67,534 miles. The total number of interior messages sent and received amounted in 1913 to 5,039,890 and in 1916 to 7,084,763. The corresponding figures for international messages were 2,213,919 and 1,816,188. The number of telegraph offices in 1916 was 2,435

In 1913 there were 85 urban telephone systems and 197 interurban circuits. The

total number of telephone stations was 29,932.

The Compania Nacional de Telegrafia sin Hilos holds the government concession for the public service with ships, and between the Peninsula and the Canary Islands and the international service with England, Italy and Austria, this company operates ten stations, viz., at Aranjuez, Barcelena, Cape Pales, C. d.z. C. pe Francere, Las Palmas, Santonder, Soller, Tenerife and Vigo.

With reference to the telegraph and telephone systems it may be pointed out that the latter, and more especially the trunk system between the principal cities, has several particular advantages for interior communications over the tormer, which does not go usually give a very efficient service. The outstanding features of the telephone system is (1) its acceptance of written messages for telephonic transmission, which is usually quicker than the telegraph and which costs approximately the same: (2) the system of might despoten by which messages marked for sending between midnight and 8 a.m. the following morning are transmitted at a greatly reduced rate and are delivered early in the d.y; and (3) the convenience offered of arranging for a call with a person in a distant entry at a stipulated hour.

PARCED POST TO SPAIN FROM CANADA.

The Canadian Official Postal Guide for 1915 states that parcels up to 11 pound-

The number given to the parcel at the time of posting should be entered on the distorms declarations. Parcels are delivered not by the post office but by the railway companies and at certain railway stations only. The name of a railway station where parcel post business is done must form part of the address both on the parcel and on the despatch note. The addressee must usually obtain the parcel at the station specified. Parcels to be called for should be addressed "en gare," not "Poste Restante."

SPECIAL PRGHIBITIONS FOR PARCEL POST.

"Letters, coin, firearms and ammunition, air-guns, reproductions of charts 101-lished by the Spanish Ministry of Marine, missals, breviaries, rosaries, relics, etc.; pharmaceutical preparations or patent medicines of unknown composition, of which the prescription has not been published, substances containing saccharin, unmanufactured tobacco, tobacco seed and juice, plants (unless accompanied by a phylloxera certificate to which, if in English, a French or Spanish version should be appended), gold, silver (including articles mounted with these metals), jewellery and playing cards, etc.

"A parcel may not consist of two or more packages tied together."

PART VI.

Tariffs, Commercial Taxation, Trade Marks.

THE SPANISH TARIFF.

There has been of late a keen agitation among the manufacturers of Spain, and more especially those of Catalonia, for raising the national custom duties and thereby rendering foreign competition more difficult and indirectly promoting Spanish exportation. At the same time many of the agricultural interests appear to be against any such added protection, and as in many other countries to-day a press and lobby battle is waging on this subject. Whatever the results may be, the Spanish Government

appointed some time back a tariff revision committee whose definite report will it expected be shortly presented to Parliament for discussion and final revision. Not tangible hint could be had in diplomatic circles when the writer was in Spain as to the probable findings of the Tariff Commission, but it seems very likely, from the pressure being brought to bear on the Government, coupled with its desire to foster foreign trade that the new tariff will show an upward tendency, but not the 50 to 100 per cent measure demanded by the Fomento del Trabajo Nacional, which association, centred in Barcelona, is perhaps ultra-nationalistic in sentiment. Not a few leading Spaniards told the writer that Spain in her own interests could not now annihilate toreign competition, and the new Spanish tariff when enacted may not be as cutting a weapon as the spanish tariff when enacted may not be as cutting a weapon as

The present tariff professes to be founded on the following rules: --

:: t) The maximum duty imposed on natural and artificial manures and on the raw materials for the manufacture thereof may not exceed 1 per cent of their value;

(b) The duty on natural products (except manures and foodstuffs) not product in Spain, but used as raw material by Spanish industry, shall not exceed 10 per cent of more value.

The duty on raw material similar to that produced in Spain shall not exceed 15 per cent. Ships, agricultural machinery, live-stock, and drugs are included intents:

d) On natural products not employed as raw material and on foodstuffs other than those which constitute a monopoly, a duty not exceeding 20 per cent of their came may be imposed;

factured articles except on those which Spanish industry does not produce. The duty of the latter shall be from 10 to 35 per cent of their value.

As the revised tariff will probably be made known in the course of the next few months, the writer has not translated the existing one for insertion in this report, but for information concerning the present duties Canadian manufacturers would do well to communicate with the Commercial Intelligence Branch, Department of Trade and Commerce, Ottawa.

CERTIFICATE OF ORIGIN.

In order that such Canadian goods, as require a certificate of origin may be guaranteed against differential treatments in the custom houses of Spain, her colonies of toreign possessions, or enjoy the benefits of any rates of custom duties consistent with treaty arrangements, a certificate proving their Canadian origin must be presented to the Spanish customs. The articles for which such certificates of origin to remark the spanish customs are remarked to the Spanish customs.

OCTROL DUTH S.

In quoting through prices to merchants' warehouses in the different cities of Spain, attention must be given to the Octroi duties prevailing. Generally these are levied on only domestic articles such as food, drink and fuel, but sometimes the management of the help of the products, such as for example hardware and machinery. Before therefore an attempt is made to give delivered prices of any goods to the Spanish buyer in his own stores it is advisable to consult local agents, is not only is there a divergence in the application of these Octroi duties throughout Spain, but the tariff list in the individual cities varies from time to time.

TAXATION.

The following summary of Spanish taxation as related to business and the operation of commercial travellers in Spain is extracted from the British Government publication previously alluded to:

"Foreign companies and individuals are subject to the following taxes -

1. 44 Contribucion industrial? (business tax).

2. " Impuesto de utilidades (income tax).

3. "'Impuesto de negociacion' (stamp tax or tax on capital).

1. " Contribucion Industrial (Business Tax).

"This tax imposes certain fixed charges on all persons engaged in any kind of industry or trade, art or science, manufacture, or holding any kind of office, whether of Spanish or foreign nationality. These charges are graduated according to the supposed relative importance or remunerative qualities of the particular avocations. The law contains five tariffs, under which all trades industries, etc., are grouped into classes.

"Under the Finance Act of the 30th December, 1910, an additional Treasury tax of 20 per cent is established on the business tax for commerce and industry in certain classes of the different tariffs.

'A municipal charge on the business tax is payable both on the business and Treasury taxes, and does not e. eed 32 per cent for capitals of payables and cities of more than 30,000 inhabitants, and 13 per cent for all others.

"The collector's tax amounts to 5 per cent on the sum total resulting from the above taxes.

2, "'Impuesto de Utilidades' (Income Tax).—(Law of March 27, 1900.)

"This law imposes a tax on:--

"1. Income derived from services or personal labour without assistance of capital,

"2. Interest, dividends, bonuses of any kind derived from the investment of capital according to the tariff of this law.

"3. Income derived from personal labour combined with capital in the pursuit

of industries not taxed in any other form.

"All persons of Spanish or foreign nationality are alike subject to the payment of this tax on incomes earned in Spain, whether paid direct or through persons domiciled in Spain. The law establishes accordingly the three following tariffs:—

"Tariff No. 1-Incomes derived from Personal Service.

Tariff No. 2-Incomes from Capital.

Tariff No. 3-Incomes derived from Labour and Capital combined.

POSITION AND TAXATION OF COMMERCIAL TRAVELLERS.

"The position of British commercial travellers in Spain is regulated in part by the Hispano-Swiss Commercial Treaty of 1906, and in part by the Spanish Industrial Contributions Law of 1896.

"The exemption from taxation accorded by the treaty to Swiss commercial travellers may be claimed by those of all other countries enjoying most-favoured-nation treatment. It is, however, extended only to those who represent a house or houses situated in their own country, who do not sell their samples, and who refrain from taking orders from private individuals. Whether they represent one or more firms is immaterial.

"All other categories of travellers are liable to the taxes provided for by the Industrial Contributions Law of 1896 or by such amendments thereto as have subsequently been introduced by Royal Order.

"The following rules may be laid down:-

"1. Travellers who possess no fixed residence in Spain, who represent one or more British firms, who neither sell their samples nor take orders from private individuals, but confine themselves to taking orders on samples from commercial houses, are entirely exempt from taxation.

The position of travellers, with a fixed residence in Spain, but who do not sell their samples, is regulated by article 40 of Tariff 2 of the Industrial Contributions Law. This article refers to 'agents with a fixed residence who, without buying or selling, keep on the establishment samples on which Spanish commercial firms give orders for articles to the factories or houses which the agent represents.' It also refers to 'these agents who do not keep samples, but make use of advertisements and circulars in order to bring their articles to the notice of Spanish firms to whom they send catalogues, etc., from which orders may be given.' The article continues: 'Such agents must not, however, receive the goods which they have sold from samples, accept the money for such goods, nor transmit it to their principals.'

"The contributions to which travellers are liable under this article are as follows:

	Pesetas
lu Madrid and Barcelona	800
i provincial capitals	220
other towns	164

"(These contributions do not apply to the Basque provinces or to Navarre, where a special tariff prevails.) See post.

Travellers who wish to sell the samples which they bring with them are regarded as 'sellers of articles of novelty of all kinds, who keep no open establishment, but receive orders with the right to sell in the whole peninsula.' Their position is regulated by a Royal order of the 2nd April, 1910, which fixes the contribution to which they are liable at 2,000 pesetas.

"According to the new Finance Act passed on the 30th December last (1916), additional taxes are established on the above contributions as follows:---

"Treasury tax, 20 per cent on business tax ('Contribucion Industrial').

Municipal tax, 32 per cent on both business and Treasury taxes, for capitals
and cities of over 30,000 inhabitants; 13 per cent for all others.

Collector's tax, 5 per cent on the total taxation.

THE BASQUE PROVINCES.

Bilbao.

"Travellers in fine jewellery or gold and silver watches pay annual taxes as follows:--

			Pesetas
To provincial deputation	n	 	 41.77
town council		 	 37.98
Total		 	 79.75

"Travellers bringing with them samples of cloth, hardware, or any other manufactures pay as under:--

		Pesetas.
To provincial deputation		33,39
town council		30.36
Total		63.75

"Travellers seeking orders for a Spanish firm in which they are employed as clerks, and which firm pays the corresponding tax at their residence, as proved by presentation of receipt, will not pay above taxes if they limit their sales to shops or merchants in the city. If they offer their goods to private individuals they will pay 25 per cent of the above tariff.

"Communion agents, with fixed residences in Billing, receiving and despatching produce or goods for account of others, pay annually as follows:

	deputation	1 %
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" If these latter only make use of samples, showrooms, advert soments, or circulars to obtain orders without taking part in the sale, nor receiving the goods sold, nor collecting their value, they pay annually: -

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10	provincial deputation.	0		0	0 0	,	 0		0 0			0	0	 			48.	37	
	town council		0	0		0 0	0	0	۰	-	9			 ٠			43	9.8	
	Total																92.	35	

"The town council collect and issue one receipt for both of these taxes.

Province of Guipuzcoa.

"Commercial travellers carrying samples of no value, and merely booking orders from the trade, pay no tax whatever. If they solicit orders from private persons, or if they offer goods for sale, they are liable to a tax of from 150 to 250 pesetas.

Province of Navarra.

"There are no formal regulations for the province. In Pamplona city commercial travellers who limit themselves to booking orders for their principals pay no taxes. Travellers selling goods pay 100 pesetas for three months or less. In most of the other towns no taxes are payable.

"It is essential that commercial travellers of all categories should be provided with

a certificate of identity."

PERSONAL CERTIFICATE.

In addition to the foregoing it should be pointed out that every person permanently residing in Spain is obliged to arm himself every year with a personal cedula or warrant, which constitutes a certificate of residence, and in which birth, date, civil status, profession, residence and signature are recorded. These certificates are issued by the different municipalities at rates proportionate to the individual income made.

REGISTRATION.

It is also important to note that every individual or company conducting business operations in Spain must be duly registered in one business class or another according to his particular occupation, each class having its annual fixed tax. Such tax is collected by the authorities in charge of inland revenue.

TRADE MARKS IN SPAIN.

There follows a statement on the registration of trade marks in Spain taken from E. British Government publication entitled, Standing Information on Spain, 1917:-

"The protection given by the laws of Spain to property in trade marks is the same for foreigners and natives, provided that the registration of the mark be properly effected in compliance with the laws.

"The law at present in force is the Royal decree of the 20th November. 1850, combined with the modifications and amendments enacted from time to time in the form of Royal decrees and Royal orders, the Declaration of Great Britain and Spain

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of the 14th December, 1975, for the mutual protection of trade marks, and the resolutions adopted by the International Congress for the protection of industrial property, of which Spain is a signatory.

"The protection of a registered trade mark in Spain is in perpetuity, and there are

no annual taxes or fees of any kind.

"2. The course of procedure to be followed by owners of British trade marks to obtain protection for their marks in Spain is as follows:—

"1. To file in the Ministry of Agriculture ('Fomento')-

"(a) An official copy of the English registration of the mark, legalized by the Spanish consul in London.

"(b) Twelve copies of the mark.

"(c) A cliché or electro which must not exceed 10 centimetres by 6 centimetres in size.

"2. The certificate of British registration must be translated at the Madrid

Foreign Office by the official translator.

"3. A formal petition for the registration of the trade mark in Spain must be drawn up on stamped paper and forwarded with the translated documents and cliché to the Secretary of the Minister of Agriculture ('Fomento').

"4. The petition, together with a description and copy of the mark, is published in the *Boletin oficial de la Propiedad intelectual e industrial*, and for ninety days from the date of publication protests may be lodged against the registration of the trade mark.

"5. On the completion of the ninety days, if no such protest has been received, an official certificate of title to the trade mark is issued and published in the Boletin oficial de la Propiedad intelectual e in lustrial.

"The charges incurred in these proceedings are as follows:-

Transla	-	20.00
	paper for petition and certificate	4.80
Issue of	title and tax	30.00
Stamps,	etc	4.80
	Total	59.60

"The usual charge of an agent in Spain for registering a trade mark, including the above expenses, is four pound sterling.

"3. The previous registration of a British trade mark in the United Kingdom is

necessary, in order to obtain its registration in Spain.

"4. There is no limit of time within which any persons who have used a trade mark in Spain before registration are obliged to register their marks in order to secure the benefit of the laws in force in Spain.

"5. The owners of British trade marks, who have registered their marks in Spain, in accordance with the laws, can obtain redress in the event of the infringement of

their trade marks in the ordinary common law tribunals of the country.

"6. A trade mark, the property of a British subject, can become the property of a native in Spain, in consequence of neglect to register the mark in Spain. A Spanish subject can obtain the right to use any trade mark that is not already registered in Spain, should be fulfil the regulations for the registration of that mark and no protest be made during the period allowed by law."

Appendices.

SPANISH GOVERNMENT ENCOURAGING NATIVE INDUSTRY.

(Summary of Law, dated March 2, 1917, which appeared in "Official Gazette,"

March 3, 1917.*)

"The Bill aims at the development of already existing Spanish adustries and those to be established hereafter. The following are specifically mentioned as eligible for the enjoyment of the benefits of this law:—

"(a) Shipbuilding (up to 600,000 tons) for the national mercantile marine, with

the proviso that the machinery shall be a product of national industry.

"(b) Coal-mining and processes for the manufacture of by-products of coal.

"(c) Iron and steel works and manufactures of iron, steel and other metals employed in producing special steels.

"(d) Smelting works for copper, zinc, brass, lead, tin, and aluminium ores, and plants for manufacturing these metals and tinplates.

"(e) Manufactures of tools not hitherto made in Spain.

"(f) Agricultural industries for the production of seeds and other produce not hitherto obtainable in Spain and for disposing of such produce.

"(g) The export trade in cattle, wines, oils, fruits, and Spanish agricultural produce in general, under the management of growers' trusts.

"(h) The manufacture of fertilizers and agricultural machinery.

"(i) The utilization of waterfalls producing a minimum of 1,000 horse-power.

"(j) The manufacture of chemical products in general, and more especially drugs, medicinal products, and dyestuffs.

"(k) Textile industries and wool-washing for employment therein.

"(l) The manufacture of electrical material of every description.

"(m) The production of scientific material.

"(n) Printing, engraving, and stationery, preferably editorial enterprises devoted to the exportation of Spanish publications and literature to South America.

"(o) Industries created in Spain to meet the needs of the policy of penetration in Morocco.

"Beneficiaries under this law must be Spanish, wholly or in part, this provision applying also to their personnel, etc. All material employed must be Spanish, unless unobtainable in Spain, or unless the cost exceeds that of the foreign article by more than 10 per cent.

"State support may be granted-

"1. By special resolutions without direct financial assistance, which may take the form of exemptions from stamp duties, deferment or reduction of taxes, exemptions from customs duties, customs protection, special railway and shipping rates, agreements with the Bank of Spain and the Banco Hipoticario, exemption from local duties, and expropriation of waterfalls for power.

"2. By loans.—The maximum amount of bonds which may be in existence at any one time will be 150,000,000 pesetas, bearing a maximum interest of 5 per cent.

"3. By guaranteed interest on the capital invested.—This interest shall not exceed 5 per cent per annum on the actual cash capital invested and in existence at the time the concession is granted, profits being deducted from the amount required to make up the 5 per cent. The maximum grant to be included in the budget for any one year shall be 10,000,000 pesetas, and the maximum duration of the guarantee shall be fifteen years.

"Industries producing a surplus for export may be granted bounties to enable them to compete in foreign markets, provided that no trust has been formed with the

[•] From the British Government Publication entitled "Standing Information on Spain, 1917."

object of raising prices. This will not apply, during the war, to export trade with belligerent countries. The maximum annual sum to be devoted to this purpose is fixed at 10,000,000 pesetas.

"It is not proposed to protect any industry in such a way as to give it an unfair

advantage over similar industries already in existence.

"Concessions which may be granted under this law must be applied for before the 31st December, 1919, which period may be extended for a further three years should this course be deemed desirable in the national interests."

BIDDING ON GOVERNMENT CONTRACTS.

Although Spanish law establishes that Government contracts for all kinds of services and public works shall be filled by articles of national production only, yet a proviso allows the State to receive proposals from foreign manufacturers on the following grounds:—

1. Owing to the imperfection of the national product, declared after analysis and

experiments in the presence of the interested parties.

2. Owing to any notable difference in the cost of the national product in the place of production, as compared with the foreign product.

3. Owing to a recognized emergency, which Spanish industry is unable to meet.

4. Owing to the non-existence of the said industry in Spain.

These bids on proposed Government contracts are called for at certain periods throughout the year and often involve substantial amounts. But owing frequently to the shortness of time allowed for the submission of tenders it is difficult to conclude business unless foreign concerns are represented in Spain by agents who can watch for these proposals as published in the Official Gazette and who can be trusted to exercise discretion on the expediency of offering quotations before cabling their principals for confirmation. In those cases where foreigners compete with Spanish manufactures the foreigners' bid may be accepted unless it is 10 per cent lower than that of the Spanish producer.

In addition a royal circular order of July, 1908, provides that when a concurse or subasta has been held for articles reserved for home production, but tenders have either not been forthcoming or have not been accepted, foreign tenders will be admitted at the second concurse or subasta on the same conditions laid down in the first instance.

Some of the articles called for in 1917 by the Government departments on which foreign firms could submit tenders were: (1) various metallurgical products, iron and steel and other metals or alloys; (2) certain driving and other machinery: (3) electrical material such as measuring apparatus, telegraphic and telephonic equipment, electrical cable, electrical supplies, and electrical installations for centrals and lines; (4) fire-extinguishing accessories; (5) certain army and navy supplies.

AMERICAN ACTIVITY IN SPAIN.

The commercial activity of the Americans is plainly evident in all parts of Spain. One meets American drummers in the hotels, buys American goods in the shops, rides in American autos and sees American products in home, factory and office. Toilet articles, men's haberdashery, certain food products, automobiles, motorcycles, electrical goods, machine tools, agricultural machinery, musical instruments, office furniture, boots and shoes, chewing gum, fountain pens and pen points are among some of the articles most commonly seen from the United States. It is not an accurate statement to claim that the absence of supplies from other sources alone established the larger market for American wares. American activity itself is partially responsible. Not only does every mail bring dozens of offers to leading importing houses, but American business men have been coming in large numbers and armed with introductions from

Government departments and banks to many important Spanish firms. True some of these sojourners have been disappointed in the prospects offering and have had to readjust their views as to permanent openings, but the larger percentage of them have gone back with substantial orders and optimistic of the future. Whether American selling conditions will lend themselves to repeat orders in days of keener competition is a mooted question, but the fact remains that American goods are being advertised and are being bought and that agencies are being opened up, all of which facts are at least not construed by them as discouraging.

The United States did not enter the Spanish field of banking till this year and has in this respect been outrun by both Great Britain and Canada, but now the National City Bank of New York is establishing attractive premises in Madrid and

is reported to be opening branches in Barcelona, Bilbao, Cadiz and Vigo.

Not only have travellers and the banking interests come, but the Americans are reported to be taking a keen interest in certain industrial enterprises in Spain. For example, at Cadiz it is believed that the Ford Motor Car Company are to erect a \$300,000 assembling plant to handle over 500,000 cars a year, especially trucks for North African markets. Other industrial undertakings in the Barcelona district are also reported to be pending.

In shipping circles it is believed that American financial interests are behind a proposed express steamship line between New York and Vigo, which port, according to the scheme, is to be linked up with Hendaye on the French frontier and thence with Paris. This project, however inviting on first examination, seems hardly to lend itself to an early execution, as at present there is only a single metre gauge between Vigo and the frontier and that too for not all the distance.

Americans are, moreover, said to be interested in the projected new trunk electric line from Dax, near the French frontier, to Algerians in the south of Spain. Already it may be mentioned there are forty-eight American locomotives running on two of

the principal Spanish railway systems.

Finally, several special delegates have recently visited Spain on behalf of the United States Government Department of Commerce and their reports are now being circulated among interested parties in the United States. Thus both government and business men are putting forth more than an ordinary effort to obtain an appreciable share of Spain's import trade.

A writer in an English trade review referring recently to American activity in

Spain says:-

"To-day there is not a corner of Europe free from the barrage of America's commercial army. The American soldier with his machine guns has been succeeded in Europe by the American "drummer," armed with samples of everything from a steam-engine to a toothpick. Not only is the Spanish merchant and shopkeeper being supplied with all sorts of things, but even the Spanish flies are being massacred in their millions with American 'Tanglefoot.' The fact is that while we are making up our minds, the United States is doing good, sound, practical work and doing it quickly, and this with the American capacity for rapid output constitutes our greatest danger in the keen struggle to recapture the trade markets which were ours before the war."

SPANISH IMPORT AND EXPORT TRADE.

The following table will show the value of the total Spanish imports from and exports to each principal country with which Spain does trade during the year ended December 31, 1913.

(Coin and bullion is herein included.)

Impor	ts. Exports.
United Kingdom 244,669	.109 231 571,221
Argentine Republic	,664 70,964,239
Austria-Hungary	2,727,344
Belgium 45.033	
Brazil	.8×9 5.468.845

(Coin and bullion is herein included.)-Continued.

	Imports.	Exports.
British Possessions in Africa	61,960	72,656
" America	9,032,886	2,751,050
Asia	59,944,918	895,385
" Oceania	1,635,157	862,379
Bulgaria	80,823	793
Chile	5.868,093	7,584,278
China.	5,029,902	3,082
Cuba	2,477,549	64,538,839
Denmark	9,176,512	4.184,438
Ecuador	3.744,553	1,088,605
Egypt.	11,726,669	609,553
France	204,265,202	327,744,316
Germany	185,369,962	74,418,566
Gibraltar	1,543,334	5,025,561
Guatemala	26,361	98,148
Italy.	15,805,757	34,722 408
Japan	629.587	77,713
Mexico	6.260 596	15,851,307
	4.468.218	9,318,683
Netherlands	18,642,386	63,574,331
Norway	16,404,405	2 240,177
Peru	372,728	1,585,056
Philippine Islands	21.400.054	7.050,385
Porto Rico	7.854,900	2,502,669
	56.510.154	47,367,918
Portugal	5.632,749	12.559
Roumania	44,973,518	8.286,803
Russia	350.893	278.827
Salvador	17,824,254	1,835,519
£744 C G C 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	24,926,797	14,094,947
Switzerland	12,718,696	5.761.019
Turkey	167,185,782	72.194.898
C HILLEGY INCHESION	5.633,221	10,851,510
Uruguay	9,835,908	8,772,347
Venezuela	51,784,614	41.370.318
Other countries	01,101,011	32,010,010
Totals	1,414,947,889	1.195,007,719

SPANISH IMPORT TRADE ACCORDING TO ARTICLES.

The following table illustrates the total quantities and value of the principal articles of merchandise imported by Spain during the year ended December 31, 1913:—

		1913.
	Quantity.	Value.
Articles Imported.		Pesetas.
Animals—		
Cattle	15.541	7.079,800
	5.579	4.906.118
Horses.	23,175	8.650.055
Mules and asses	23.842	2,002,728
Pigs and swine	241,864	6,530,329
Sheep	74,005	1,177,038
Other	479,019	1,298,141
Butterkg.	910,010	23,994,778
Carriages and vehicles	13,490,315	1,489,354
Charcoal, firewood and other combustibles.kg.	2,607,556	5,606,245
Cheese	2,001,000	20,744,298
Chemical products		6,654,336
Clocks and watches.	2.701.913	70,249,742
Coal	6.166.342	12.161.683
Cocoa in the bean, not roasted		29,514,840
Coffee	15,134,385	
Coke and briquettes	396,419,112	13,874,669
Colours, dyes and varnishes		16,535,055
Cork and manufactures of		2,526,440
('otton		
Rawkg.	88,242.466	132.363,699
Yarn and thread"	286,668	2,549,120
Manufactures		14,972,662
Earthenware, chinaware and porcelain		7,026,091
Eggskg.	5,593.207	9,116,916
Electrical machinery and apparatus		42,687,359

APPENDICES

spanish import trade according to articles—Continued.

	1	1913.
Articles Imported.	Quantity.	Value.
Feathers	12,641	490,152
Fertilizerskg.	279,773,656	28,446,017
Fish—		44 800 555
Cod and stock fish saltedkg.	54,749,615	41,609,555
Fresh.	6.390,225	2.044,872 344,219
Salted, smoked and pickled	800,509	944,213
Flax, hemp, jute and ramie—	36,687,312	15.926,692
Rawkg.	3,749,414	5,666,070
Yarn		1,757,164
Fruitskg.	3,144,991	2,390,187
Glass and glassware.		4,802,661
Grain—		
Maizekg.	569.071.629	91,051,460
Pease, chick	12.982,175	7,010,375 38,348,477
Wheat	174,311,264 89,034	28,499
Wheat flour	05/108	20,100
Gutta-percha, india-rubber and man factures		16,541,844
of		1,072,424
Hides and skins—		
Untanned	8,271,479	22.749,858
Tanned.	638,686	9,590,433
Horn, whalebone, celluloid, etc., and manu-		1 447 700
factures of		1,447,792
Machinery and aparatus-		5,653,905
Agricultural		11,443,086
Engines, steam and gas		568,173
Hydraulic motors,		2,311,629
Locomotives		17,046,077
Machine tools		5.663,430
Pumps		2,248,951
Sewing machines		4,410,179 45,701,150
Other machinery, etc		40,101,100
Meat— Birds, living and dead and small game.kg.	2.268,553	3,630,164
Hams	150,160	240,256
Metals—		
Copper and alloys thereof		21,444,918
Gold, silver and platinum		1.785.622 Pesetas.
Iron and steel—		20.773,855
Unmanufactured.,		80,1101000
Manufactured— Arms		1,498,951
Articles of iron, wrought and stamp-		
ed		19,950,118
Cast-iron		2,627,366 7,188,682
Hardware		10,363,404
Small wares		3,256,549
Wires and manufactures of Other metals and alloys thereof—		
Tin in ingotskg.	1,708,762	5,553,477
Other metals and alloys		3,712,677
Milk, condensed., kg.	3,327,485	5,390,525
Musical instruments		1,381,139
Oils—		
Oleonaphtha, mineral, lubricating oils, vaseline, and mixtures of these		
vaseline, and mixtures of these products with animal or vegetable		
oils or fatkg.	12,432.046	5,345,780
Petroleum and mineral oils"	41,475,462	9,281,584
Optical, mathematical, scientific, surgical,		0 -01 40-
etc., instruments		2,721,465
Paper—		
Pulp for paper-making, cuttings of paper	60.941.507	6,703,566
and paper wastekg. Cardboard and miscellaneous paper		904,776
Paper in crude condition		1.343.442
Paper, prepared.		1,709.572
Printed and engraved paper and photo-		2 511 970
graphs		6,041,879 485,171
Wall paper		1007414

SPANISH IMPORT TRADE ACCORDING TO ARTICLES.—Concluded.

		191
Articles Imported,	Quantity,	Value
Paraffin in lumpskg.	5,399,736	5,291,741
Perfumery"	199.781	1.728.105
Phosphates of lime (natural)"	279.405.673	8.940.981
Sausage, casings	1 887.027	4,094,849
Seeds, sesamum, linseed and other oleaginous		
Seeds	70,515,159	31, 51 690
Silk-		
Raw	14.094	767 249
Twist or yarn		13,603,305
Manufactures		10, 866, 823
Stearine in the masskg	22 . 356	271,744
Spices"	756,763	2,032,124
Spirits and wines		1.821.818
Stones, earth, employed in building arts an i		
industry -		
Lime of all kinds, cement and puzza-		
lonakg.	90,893,918	4 908,272
Marble, jasper and alabaster"	7,621,697	952,516
Other stone and earths"	71,255,029	3,747 196
Tallow and other animal fats	16.171.792	14 069,451
Tar, mineral, pitch and unrefined creosote and		
asphalts, bitumens and schistskg.	34,452,875	2 975 (27
Toys and games, common	128,622	1,395 548
Typewriters		2,6×7,230
Vegetableskg	9,235,526	1,200 678
Vessels		48,672,597
Waxkg.	346,422	516,728
Wood-		
Unmanufactured—		
Planks, boards, beams, etc., of common	600 000	40 404 400
wood, cu. metre.	603,309	43,684,198
Other wood, unmanufactured		18,876,610
Manufactured—		500 000
Furniture.		566,653 2,029,071
Other wood, manufactured		2,029,011
Wool—		
Rawkg.	4,874,587	10,769,920
Yarn		205,076
Manufactures		7,715,688
All other articles imported		197 64,965
Total imports		1.414, (17.889)
part of the state		

SPANISH EXPORT TRADE ACCORDING TO ARTICLES.

The following table illustrates the total quantities and value of the principal articles of merchandise exported from Spain during the year ended December 31, 1913:—

Pesetas=19.3 cents. Kilog.=2204 pounds. Hectolitre=21.99 gallons. Cu. metre=353148 feet.

		1913.
	Quantity.	Value.
Articles Exported.		Pesetas.
Animals—		
Cattle	32.912	8.558,160
Horses	3,686	1.472,400
Mules and asses	21.031	5.768.925
Sheep"	46,794	655,186
Swine	29.319	2.344.080
Arms.		10.707.682
Boots and shoes ,		8.257.024
Bricks, common and paving stoneskg.	19,485,756	1,753,718
Cement	9,443,007	253,290
Cork		49.261.515
Cotton-		
Yarnkg.	689.881	3.449.405
Manufactures		46,875,675
Esparto grasskg.	36,497,464	4.014.721

SPANISH EXPORT TRADE ACCORDING TO ARTICLES-Continued.

icles Exported-		Oua	ntity. Vs
Exported.		Qua	l'esetas.
Fish -			
Fresh and salted			5,917 392
Preserved			39,109,987
Fruits and nuts-		***************************************	
Almonds	ko	15 254 856	26,850,988
Grapes		57 224 610	24 125 201
Melons		7.789,178	1 696 597
Olives		9 281 022	61 186111 7617
Ornhous		569 086 444	68 287 973
Oranges		5,364 \$10	2 692 276
Pointe.		19,297,567	10,613,662
Spanish nuts	1. h	6.352 677	4 704 508
Spanish nuts Fruits, preserved		2 494,855	2 494 355
Class and glassians		* 3.3 (0.10)	2 424,727
Glass and glassware	To one	1,517.488	1,820,986
Chalmand and analy anadyst		31034147	1, 20, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
Grain and grain product -	9	00. *=0	4 * * * * * * * * * * * * * * * * * * *
Barley		235 572	45.329
Maize Pease (chick)		2 407,348	133,323
Pease (enick)		2,657,472	1.544 471
Rice		19,987,505	8,791 627
Wheat flour		464 756	125 484
Wheat Hour		2,075,752	745,351
Hides and skins		\$,451,578	20 534 197
Liquorice and paste of		2,495,222	1,274 418
Metals-			
Copper		30,102,651	45,533,105
Iron and steel Lead in plates, bars, etc.		10,795,268	1,769,673
Lead in plates, bars, etc.		172.283.461	65,487,536
Quicksilver		1,489,731	8.193,521
Mineral ores-			
Copper		160,285	3 239 589
Iron		8,907 309	97,951414
Iron pyrites	* * * * * * * * * * * * * * * * * * * *	2,403,554	37,746,198
Manganese	! kg	27,793,487	1,528,642
Zinc		114.415.703	5 884,157
Mineral waters		3,107,553	2,175 497
Oils, olive		30,199,502	30 199,502
Paper, all kinds			15,842 434
Resin	kg.	9,313,67	2,078 418
Salt, common		564,041,200	5,640,412
Sandals of hemp			6.223,445
Silk—			
In cocoons	kg	83,469	1,168,566
Manufactures			1 075,765
Silver bullion			14,526,304
Soap, common		1,906,299	991,276
Spices-			
Pimento	kg.	5,968,153	4,774,522
Saffron		97,239	9.723,900
Tartar, crude		12.582.452	5 913,752
Tiles	4.0	9.311,785	2,234,528
Turpentine	44	4.341,362	5,991,080
Umbrellas and parasols			633,835
Vegetables, fresh-			500,000
	lem	4,836,994	9 170 047
Garlic			2,176,647
Detetoes	44	163,395,478	16,339,548
Potatoes	10 10 01 01 10	68,102.287	10,215,343
Vegetables, pulse, preserved.		10,472,824	10,472.824
Wines	litre.	453,655,980	142,323.318
Wood			13,716,625
Wool—		44 400 000	0.0.0.0.0.0.0
Raw		14,486,387	26,303,932
Manufactures			4,387,333
All other articles exported			219.214,340
III other differed exported.			
Total exports			1,195,007,719

UNITED STATES IMPORTS INTO SPAIN.

The following figures show the extent of the United States imports into Spain during the first four months of 1919 as compared with the total imports from all foreign countries:—

	Imports from United States.	
Slate in slabs, engraved and cut, etc	7,597 14,813	12,332 20,613
Articles in slate, polished and finished	21,861	27,603
" cloth	6,307	8,368
Asbestos, raw	291,697	331,817
	1,765	29,005
Asbestos in sheets	734,903	734,903
Petroleum and mineral oils which when distilled 300'	0.004	1 004
centigrade, leave more than 80 per cent residue	1,024	1,024
Petroleum 20 to 80 per cent inclusive	10,524,529 54,371	54,372
Other mineral oils in same conditions as previous Mineral lubricating oils and vaselines	5.264,362	5,413,559
Benzine and similar products	2,720	9,807
Gasolene	59,641	102,793
Crystal glass uncut and unstained, in articles not		
specified	1,593	9,949
Fluted, unpolished glass and reinforced glass up to		0.04
4 mm. thick.	726	924
Stoves, odourless paraffin stoves, filters, baths, piping and other similar articles	302,310	404,293
Gold and jewellery	7	84
Unpolished section iron and steel in bars	269,293	2,372,453
Iron and steel sheets over 5 mm. thick	205,220	8,859,242
" 1 to 5 mm, thick	60,984	136,224
" under 1 mm. thick	585,069	595,671
Polished iron and steel in bars and sheets	30,359	193 527
Unpolished hoop from and steel 1 to 3 mm. thick	205,897	277,125
Unpolished hoop iron and steel and springs under	82,175	94,375
i mm. thick	18.048	44,150
Iron and steel castings from 20 to 100 kg	1,544	4,164
" 1 kg. and under	458	' 469
Unturned carriage s des (straight)	12,177	1 143
Turned carriage axles (straight)	13,757	66,463
Curved or bent carriage axles	239	11,233
Iron and steel wheels over 100 kg. in weight	41,559	485,181 24,023
Other wheels and iron and steel pulleys	2,401 31,673	204.832
Trop and steel chains and cables with links over	01/019	2011000
Iron and steel chains and cables, with links over 10 mm. thick	171,544	197,473
Iron and steel chains and cables, with links from 2 to		
10 mm. thick	494	2,381
Sleepers and other pieces for railways and tramways.	13,400	24.147
Turning-platforms, signalling apparatus, etc	152 232,549	7,166 474,968
Forged iron or steel tubes to 45 mm. diameter from 45 mm. diameter up-	202,013	417,500
wards	613,440	911,421
Accessories for adjustment of above tubes	6,874	31,765
Steel and iron frames for tenders, coaches and car-		
riages	88,391	141,456
Large iron and steel parts for bridges and buildings, etc.	72,143	140,386
Forged parts over 100 kg. in weight	19,190	80,520
up to and including 100 kg	59,502 97,441	459,820 123,486
Or polished 1 to 5 mm. thick	15.301	18,482
Up to 1 mm. thick	41,575	45.628
Iron or steel wire cables.	7,242	311,916
Barbed wire and springs of iron and steel	68	2,579-
Iron wire fencing and netting over 1 mm. thick	1,105	4,132
Iron and steel wire netting with not over 40 threads		0.000
per square centimetre	126	2,729 56,373
Rivets and hooks Screws and holts over 10 mm. thick and nuts	26,100 61.684	102,449
5 to 10 mm, thick with nuts and washers	34.551	49,008
Up to 5 mm, thick with nuts and washers	22,035	28,932
ep to o mini then with mate and without the	,	,

UNITED STATES IMPORTS INTO SPAIN,-Continued.

	Imports from United States.	Total Imports all Countries
Nails, tacks, and French nails over 1 mm., plain Kg.	63,416	66,824
With polished head, etc	369	4,861
Zocks, bolts, keys, etc	5,288	6,927
With parts of different metals	4 343	7,191
Unpolished fron fittings for doors, carriages and furni-		
ture, etc	17,945	26,702
Polished and mixed with other materials	567	5,209
Kitchen stoves, stoves, radiators and similar apparatus.	184 1,748	19,84
Steel or iron safes for office and other uses		2110.1
Beds and other iron or steel furniture except kitchen	22,042	70.445
With parts of other metals and ornaments	8,697	9,305
Sawing, rasping or filing tools with or without handle.	66,711	133,961
For perforating, planing or cutting	18,418	50,568
Other tools weighing over 1 kg	36,399	88,247
Weighing under 1 kg	10,598	16,894
Iron and steel webbing up to 1 mm. thick	14,656	19,281
Unpolished and unplated kitchen utensits, in iron or	302	363
Made with iron sheeting, unpolished	272	345
Polished, enamelled and galvan-2ed	10,208	27,782
Tin sheeting, lithographed or painted	288	987
Umbrella and parascl frames, plain and without		
handles	65,754	76,410
Table knives, carving knives, razors, pen knives	1,180	3,357 857
Scissors for toilet and needlework	771	001
Brooches, hooks and eyes, and chains 2 mm. and under,	11,338	13,870
For personal use, plated with other metals except	22,000	
gold and silver		
All other hardware, plain	9,186	26,534
Short firearms and accessories	194	230
Other firearms permitted and accessories	921	951
Copper of first casting, copper bronze and brass in	108,874	293,040
bars and ingots	25,553	77,650
Copper, brass and bronze wire 1 to 19 mm. thick.	1,205,696	1,219 335
Less than 1 mm. thick	23,287	25,251
Copper, bronze and brass in sheets	173,356	3 (2,001
tubes	136,322	345,948
rivets, nails, screws	140	2.757
Clasps, hooks and eyes, etc., for clothing	6,783	6,978
Personal use, with parts of other materials except		2,492
Other objects of copper and its alloys, plain.	2,551	53,033
with decoration of other metal than iron or steel.	7,599	13,078
Domestic utensils in aluminium and alloys	3,296	3,743
Other articles in aluminium		392
Tin in sheets, bottle capsules, etc	486 109	10,303 3,734
Small articles in lead and printing type	0.0.0.0	11.066
Zinc sheets, nails and wire		3,906
Vegetable oils, except olive, cocoanut and palm oil		220,272
Vegetable resin and pitch	3,918	27,248
Vegetable products for medicines	4,035	60,327
not classified		322,735 17,430
Animal products used in medicines		11.437
Vegetable colour extracts	00 714	981,570
Varnishes without alcohol	00 105	132,472
Mineral colours (powders and earths)	18,356	152,459
prepare " with oils		248,274
Writing inks		42,958 96,351
Printing inks and pastes	57,441	86.108
Colours derived from coal		29,060
Other chemical products		5,739
Acetate of lime, and pyrolignite of iron	20,592	20,592
Oil and chlorhydrate of aniline	5,216	70,650
Carbolic acid, naphthaline and creoline		52,255
Alums, sulphate of aluminium, etc		176,805 464,552
Alkaline carbonates, borates and silicates, etc		1,411
Chloride of lime and chloride of calcium		498,016
Glues	2.744	13,839
Insecticide compounds and sulphate of copper	. 236	20,912

I MITED STATES IMPORTS INTO SPAIN .- Continued.

, sind of the fatolite late of the — c	DIST SPORTETA.	
	Imports from United States.	Total Imports all Countries.
Oxides of lead	2.109	9.234
Quinine and its salts	161	1,131
Other alkaloids and their salts	140	1,962
Sodas and caustic potashes	1 674	2,416
Sulphate of soda, etc	70,924	146,491
Other chemical products not mentioned	410,123	783,350
Tannin.	607	5,585
Pills, capsules and medicines	1,917	\$2 40 83 %
Medicaments containing sugar or glucose		9.105
Costa ning alcohol		3,160
Other pharmaceutical products	19.724	146,106
Wheat, rice or maize starch	3,056 11,156	
Feculas for Industrial use	2,589	342,730
Mineral and vegetable waxes in lumps.,,,	44	35,104 162
Stearine and palmitine in lumps	5,100	29,108
Paratin wax in lumps	3.191.426	8.231.826
Common soap.	16	23.780
Alcoholic perfumery	4.373	24,924
Other perfumery and essences	28.443	100,357
Raw cotton	35,732,150	36,231,515
Cotton, Nos. 51 to 75, inclusive	72.915	75,047
Manila hemp cord, one ply up to 30 grammes per 10		*******
metres		594,111
Hemp thread, ropes and string, etc., over 50 grammes		001,110
per 19 metres		187,803
Jute, hemp, fibre and similar textiles, for tapestry	2,101	2,507
Vegetable fibre carpets		1 290
Textiles of knitted floss and chemical silk		3 379
Textiles of silk or floss silk mixed with vegetable fibre.		3,563
Printing paper in rolls from 41 to 50 grammes without		,
mechanical paste, and other from 51 upwards	10:01	535,880
Ordinary packing paper	43,055	44.815
Raw paper, not listed	4.89	674
White or coloured paper cut, and hand made	2,372	9,810
Paper coated with mineral materials, glass or mica, etc.		35,795
Envelopes for correspondence	3,175	9,786
Books and printed matter in Spanish	6,539	27,597
1 other languages	3,546	29,094
Engravings, maps and designs	1,593	21,435
Lined paper	94	4,469
Pasteboard and cardboard, over 500 grammes	14,264	24,548
Plain cardboard boxes	389	1,176
Staves.	8,030,694	10,358,205
Ordinary wood in planks up to 40 mm. thick		12,003
under 40 mm. thick	48.327	56,278
Fine wood in planks, unworked, over 40 mm, thick.	14,681	662,253
o to willing think,	14.555	19,409
Wooden casks for liquids	1,667,452	1,835,777
Other casks for other uses	332	138.475
" turned articles event funditure or	20,672	33,564
" turned articles, except furniture or laths		07 010
" in fine wood except furniture and	1,110	87,016
laths	17	1.926
" furniture, neither carved nor veneered		1,952
Rushes, reeds, horsehair and other material, unworked.	5.296	662,789
Prepared hides of all kinds	27,231	28,346
Hides cut into strips	68	1,208
Leather belting	5,421	13,841
" boots and shoes	1,432	2,825
harness and accessories for horses and car-		a,0 a p
riages	7	142
Tallow and other animal fats unmanufactured	15,153	3,481,748
Guts	311,365	521,537
Animal coal	2.156	23,892
Other articles not included	10.393	1,123 061
Harmoniums and small planos (with handle)	210	1,499
Grand pianos (number)		
Other planos (number)		_
Mechanical apparatus for musical reproductions		2,434
Keyboards and mechanism for all kinds of planos	70	4,705
Musical instruments of motal or other than of mood	54	315
Instruments of any material for direct measurement		
of longitudes	2,676	6,363
Articles for surgery and laboratory	813	4,459

UNITED STATES IMPORTS INTO SPAIN .- Continued.

	Imports from United States.	Total Imports all Countries.
Other scientific instruments	19,248	81,765
Gold watchen	50	\$,860
Ordinary clocks and alarms	6,287	8,037
Typewriters	42,689	44,465
Phonographs, gramophones and similar apparati	5,387	5,081
Dynamos, electro-motors, etc., up to 100 kg. weight	96,671	197,844
101 to 400 kg. in weight	61,910	217,386
Switchboards and switches, up to 400 kg Dynamos, electro-motors, switchboards, etc., 401 to 2,500 kg. in weight.	\$1,2 \$3	48,757 486,885
from 5,001 kg. upwards	139,957	192,869
from 5,000 kg. upw. rds	139,957	192,869
Accumulators and electric batteries	9,498	20,112
Electric wires 1 centimetre thick and upwards	20,319	28,342
Other electric wires under 1 centimetre	3.288	9,806
Telegraphic and telephonic apparatus	17,383	48,171
Voltaic arc lamps	73	210
Carbons for voltage are lamps	750	859
Electrodes for metallurgy	1,314	81,555
Electric incandescent lamps with mounts	2,566	17,334
Counter scales and weighing apparatus	2,873	2,964
Weighing machines and other weighing apparatus	16,199	25,040
Agricultural machinery	1,123,237	1,287 826
Steam cylindrical generators	5,019	7,656
multitubular	1,319	445,984
Semi-fixed steam and gas engines, with boilers	\$6,553	145,397
Fly wheels for all kinds of machines	55,956	81,442
Single cylinders for rolling machinery for Iron and	2,420	97,156
Fixed and movable cranes	119,051	186,111
Pumps of all descriptions	35,963	84,572
Locomotives and tenders over 35 tons	254,462	254,462
up to 35 tons	174,168	463,890
Hydraulic motors	568	469.660
Copper machines, and parts	2.757	20,104
Sewing and embroidery machines	119.228	837.649
Machines, for knitting stockings, up to 70 kg	782	813
Other embroidery and knitting machines		_
Hosiery and crochet machines over 70 kg	6.468	6.587
Machines other than of copper, for textiles,	70,970	286,339
Machine-tools up to 500 kg. inclusive	69,628	112,073
501 kg. and upwards	427,425	577,43 5
Other machines not mentioned.	863,994	1.908,662
Machinery for manufacturing rough paper for smooth-	0.400	200 000
Bands of any material for carding.	3,499 142	193,630 25,639
Velocipedes, bicycles and motorcycles	18,806	35.718
Handcarts	27	210
Frames for ordinary carriages up to 1,000 kg.	24,099	29.827
over 1,000 kg	8.019	27,317
Carriages and motor cars, open, with or without engine,		
up to 1,000 kg	57,758	60,410
over 1,000 kg	46,223	60.521
closed, over 1,000 kg	11.087	14.783
Camions and other autocars.	34.003	49,830
Wagons and carts for animal traction, and small	0.105	0.000
carts	1,497	2,263
Heavy vans, wagonettes, of all descriptions	27,194	27.194
Natural butter, margarine and cocoa butter.	5,101 6,810	5,189
Codfish and stockfish.	62,336	13,331 12,570,315
Sugar	2,387,179	4.091.601
Canned foodstuffs.	41,917	49.992
Horn, whalebone, celluloid, meerschaum, ebonite and bone, worked, not mixed with gold or silver, and		*0,000
made up into personal trinkets	2,473	5.758
made into other articles, and the whalebone and horn		
cut into sheets	8,338	19,732
pearl, paste and porcelain	1.217	16,948
in metals other than gold or silver	678	4,801
Other buttons and cuff links	10	273
Brushes of all classes for painting.	520	3.835
Brushes, with or without wooden top	35	615
with inlaid tops or handles, without gold or silver.	400	3,504

UNITED STATES IMPORTS INTO SPAIN,—Continued.

	Imports from United States.	Total Inports
Control of the state of the sta	30, ,	109,921
Cartridges without bullets for firearms KK	1.05	140,462
with builet - small wooden cases of fine wood, leather, fined with sik and others	152	1,060
Rubber hose or tubes, whether reinforced or not with	< 0 f	14 561
WITE	39,991	95 865
Solid rubber tires, metal reinforced.		95,451
Pneumatic tires for carriage wheels	1.576	11.649
Elastic for shoes, braces, garters, etc.	711	13,094
Waterproof rubber sheeting (cloth)	2 3 2 1	17,623
Rubber for shoes, even containing other matter.	₩ 17 ₩ 6	
in other forms, except instruments, toys and sta-	376	1,502
tionery articles	17,526	57,626
Floor and packing olicioth.	T + 1 - 1 - 1	0111101
Toys except those in ivory, tortoise-shell, mother-of-	75 -0 c) -	10.029
pearl, gold or silver	* , 1	11.639
Lamps, table lamps, chandeliers for illumination.	2 - 109	23,022
Stationery articles except those of gold or suver	105	574
Straw hats and bonnets.	83 264	644,360
Packing sacks,	4.616.103	12.673.800
Raw tobacco	4,010,103	10,010,000

Canadian Exports to Spain.

The following statistics from Canadian Government returns, show Canada's exports to Spain during the year 1913, together with their value:—

	Quantity.	13. Value
Articles Exported-	Quantity.	
Breadstuffs		8 130
Fish-Cod, dry-salted	2,545	\$ 16,200
Total fish	, , , , ,	\$16,200
Metals and minerals and manufactures of— Iron and steel and manufactures of—	Annual Control of the	
Agricultural implements -	182	\$ 5,145
Cultivators	26	197
Harrows	5.0	5,080
Harvesters	21	378
Hay rakes.	41	1,261
Mowing machines	250	14,011
ReapersOther agricultural implements		1,963
Parts of agricultural implements		1,805
Total agricultural implements		\$29,840
Other iron and steel and manufactures of		227
Other iron and steel and manufactures of		30,067
Other metals and minerals and manufactures of		708
Total metals and minerals and manufactures of.		\$30,775
		\$671
Provisions		
Planks and boards	17	840
Total wood and manufactures of		\$840
All other articles exported		\$12
Tetal exports for 1913		\$48,628

Canadian Imports from Spain.

The following statistics from Canadian Coverament returns show Canada's imports from Spain during the year 1915, together with their value.

		1 '	*1.
Attale Imported -		62 . 11 1 1 1	1 . 45
Books, panglet, or			á
Citton and manufer accept	121.		1 1 1 1
Dinish, six and, classes a control of the same			1;
Fancy goods			
P 1 516			1. 1. 1
Flax, hemp, jute and non-it tures of			2.11.4
Fruits and nuts			
10,			
I It continues	Labo	10100	1 .1
N Ps. din t. b. b. d		1 2125	.; . + 1
Almonds, not be left	* *	1 14	20 (1
Annual transfer of the state of		27 181	45 . 17
Perana, not state. I shalled past it hop.		* (1) () b (1 0 0 %
Walnuts, not she is		. 1	
Shi le		14 "	1::+
SIO II		01, 15	51. 1
The same of the same of the		1	
Citects			
Graphs .	Lili	_ 1,_"1	13,511
Lemons and lives			1 1 .45
thanges and shoblods or grape fruit			1 127
Fruits, canned or preserved		*	
Metals and nomeri's and manufactures of			19.1
Uls			2.454
Fackages and parcels.			17 8
Pickles, sauces and sox	(1.4)	111051	F1,73%
Pocket-books, porfolios, pansas, retuibe, gatchels,	1-11-1		
cases, fly-books and musical instrument cases			1 3 3
Rings	1,111,1	18 2 3	21,678
50 ID	. 14	187 507	24 182
Solve	1).	\$ 100	1.1
Spirits and who -		1.1.40	1.11
Spirits and wines			
	1.1	1.610	- 1 - 1
Wines, non-sparkling		_ ~ \$,	2.4 ()
spatisting			117
Total ster to and whose			
total sign and whos			*U. T. 1112
Versetalites			
			×200
Wood and manufactures of .		-	
Corks and other noncoractines of oak wood or			
bork and work, and	11111		
Other wood and manufactures of			8 2 6
			3 _1 +1
Testal wood and a mufacture of			81 1 111
All other articles apported			* 1 10×
Tatal imparts for 1 G;			\$1.00 //0

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